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# Committees

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## Congress President

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## EUROSOIL 2008 is organised in co-operation with the national soil science societies of:

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Austria  
Croatia  
Czech Republic  
Hungary  
Slovakia  
Slovenia  
Switzerland

## Organising Committee

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Winfried E.H. Blum, Austria  
Andreas Baumgarten, Austria  
Lubos Boruvka, Czech Republic  
Michael Englisch, Austria  
Volker Franzius, Germany  
Wolfgang Friesl, Austria  
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Rainer Schulin, Switzerland  
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## Conference Organisation, Abstract Management, Sponsoring

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E-mail: eurosoil2008@medacad.org

## Exhibition Management

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Medizinische Ausstellungs- und  
Werbe-gesellschaft MAW  
Freyung 6  
A-1010 Vienna, Austria  
Phone: +43 1 536 63 48  
Fax: +43 1 535 60 16  
E-mail: maw@media.co.at

## Hotel Accomodation

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Mondial Congress & Events  
Operngasse 20b  
1040 Vienna  
Tel: 0043 1 58804-0  
Fax: 0043 1 58804-185  
Email: eurosoil2008@mondial-congress.com

## Congress Venue

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Technical University Vienna  
Karlsplatz 13  
1040 Vienna, Austria

## Welcoming Address

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It is my pleasure to welcome you to EUROSIL 2008 on behalf of the Organising Committee. This 3rd International EUROSIL Congress, after EUROSIL 2000 in Reading, UK and EUROSIL 2004 in, Freiburg Germany, is organised in Vienna/Austria by the national soil science societies of Austria, Croatia, the Czech Republic, Hungary, Slovakia, Slovenia and Switzerland, under the umbrella of the European Confederation of Soil Science Societies (ECSSS), a regional organisation within the International Union of Soil Sciences (IUSS), which was founded during the EUROSIL Congress 2004 in Freiburg, Germany.

This Congress comprises 31 symposia, 13 workshops, 2 pre- and 1 post-congress excursion as well as different social events. A special challenge for this Congress is to keep momentum in the European development of soil protection, including the establishment of legal instruments in the form of a European framework directive for soil protection, similar to existing ones, such as for example the water framework directive.

Moreover, this international congress is held at a time of unprecedented changes in social and economic developments, in view of the current shortage of food, with a worldwide rise of food prices and, in parallel, the production of biofuels, not only for saving fossil energy, but also with the intention to combat climate and global change. – At the moment, politically, socially and economically driven processes are faster than science can follow by steering or judging the effects of technical and economic developments, especially regarding the impacts of biofuel production on soils and the environment. – Moreover, in view of the tremendously increasing prices for energy and concomitantly the increasing costs for all kinds of soil and land uses through the price increase for fertilisers and energy in general, the question arises: What is the task of soil science within the knowledge-based bioeconomy, as well as in environmental protection?

There are new challenges ahead and I am convinced that this Congress will contribute to new concepts and activities, in order to cope with current and future tasks. Finally, I should like to thank all the members of the different Committees and the congress organisers, especially Mrs. Miriam Uebelhör, for their thoughtful and effective co-operation in the preparation of this international congress.

I wish you all a very pleasant stay in Vienna and a successful and interesting Congress, which should bring new highlights, information and ideas to all of you.



Winfried E.H. Blum

Winfried E.H. Blum  
Congress President

# Fasten your seatbelt – and loosen that tie.

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## Acknowledgements

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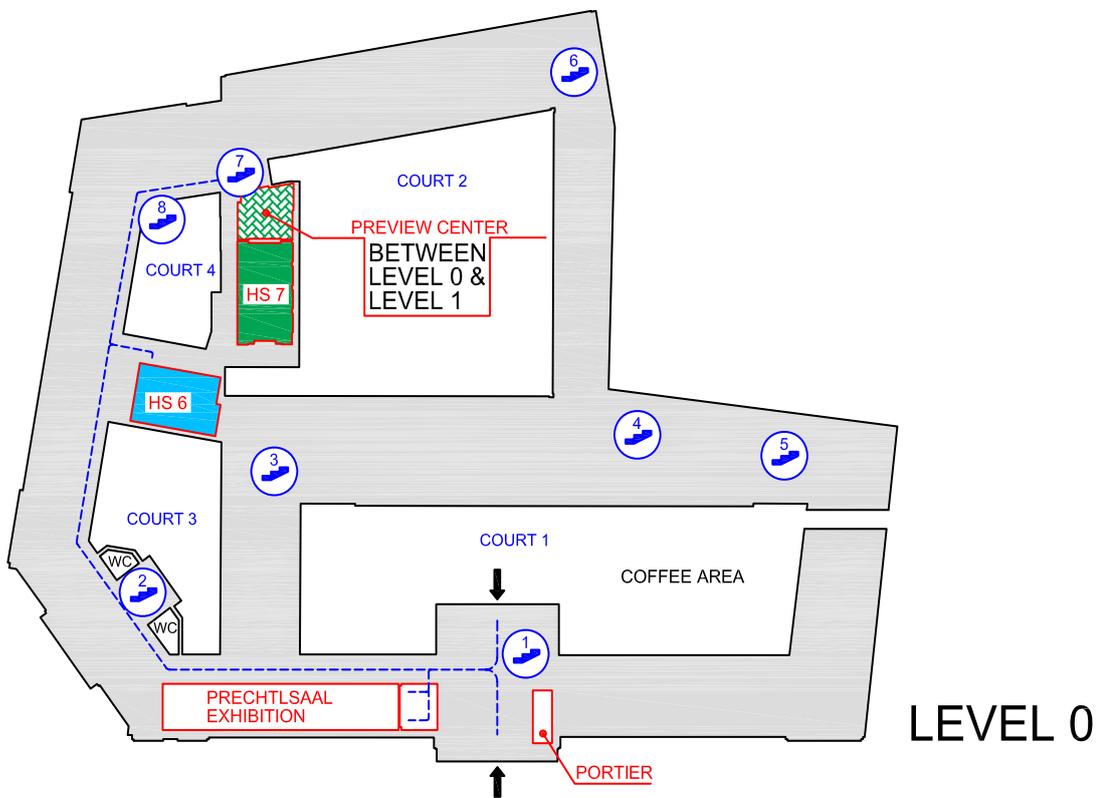
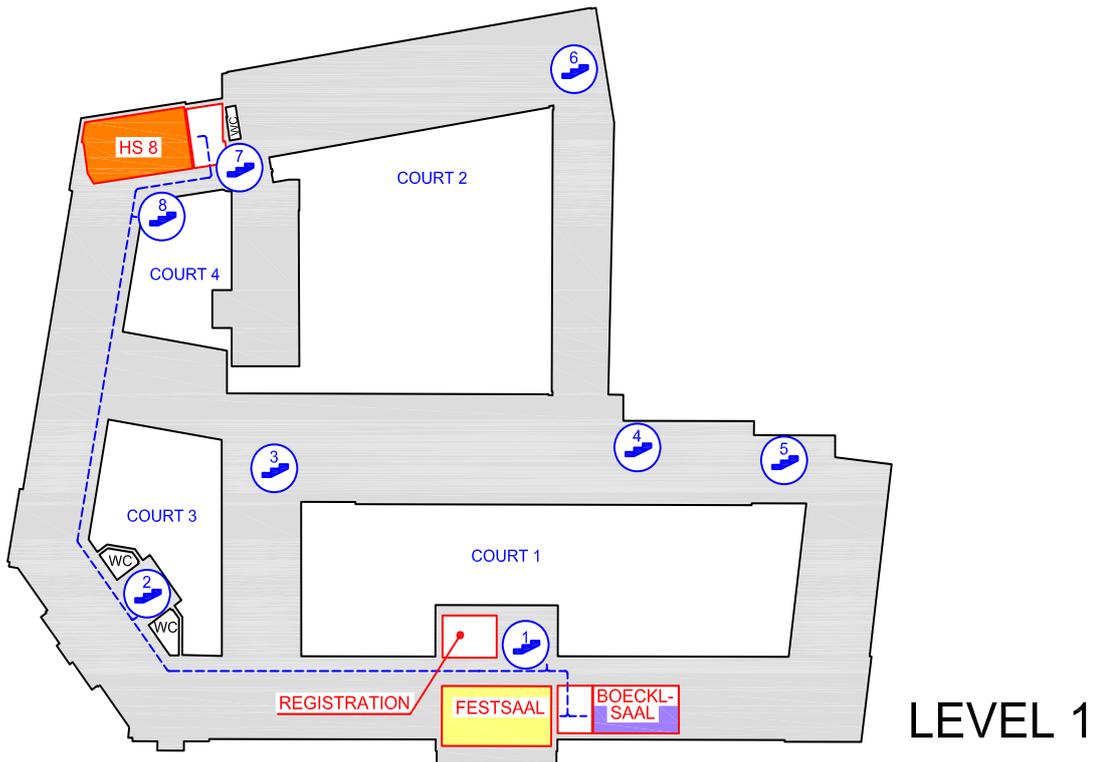
The EUROSIL 2008 Conference gratefully acknowledges the support of the following institutions, companies and organisations (list correct as per date of printing):



Federal Ministry of Agriculture,  
Forestry, Environment and  
Water Management  
Stubenring 1  
A-1010 Vienna

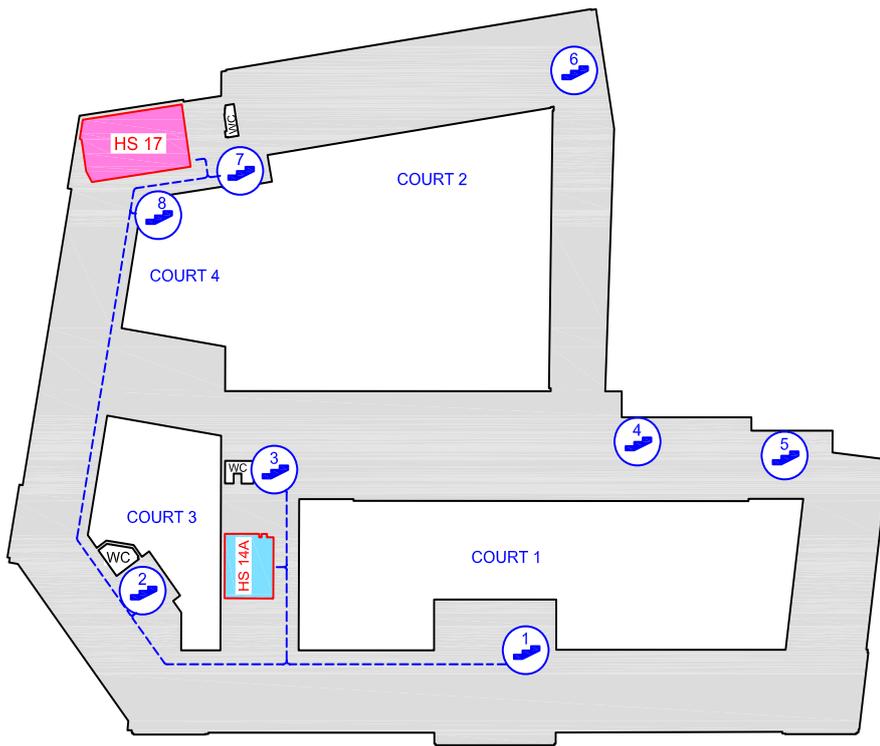
Vienna Convention Bureau  
Obere Augartenstrasse 40  
A-1020 Vienna  
[www.vienna.convention.at](http://www.vienna.convention.at)

# Floor plans

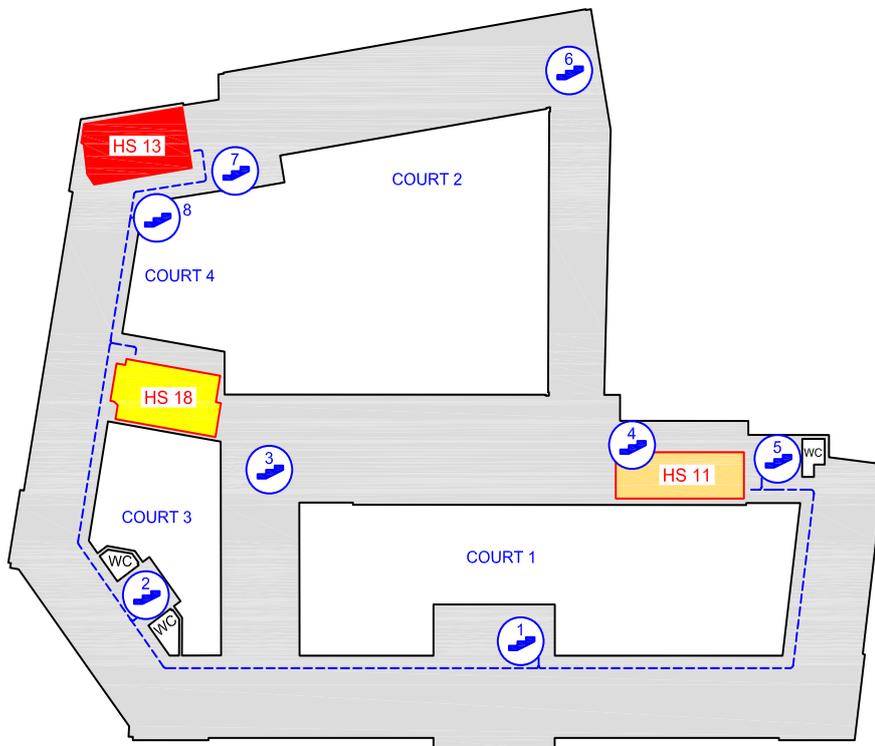


- ↑ MAIN ENTRANCE
- ↕ STAIRS
- WC TOILET
- LANE

# Floor plans



LEVEL 3



LEVEL 2



# Programme by day – Monday, August 25, 2008

<b>Monday</b>										
<b>August 25, 2008</b>										
Symposia / Sessions										
	HS 8	Fest saal	HS 11	HS 18	HS 13	HS 6	HS 7	HS 17	HS 14A	Böckl Saal
09:00	<b>Opening Ceremony</b> (Audi Max, Freihaus)									
10:30	<b>Coffee Break</b>									
11:30	<b>S01</b>	<b>S28</b>	<b>S08</b>	<b>S20</b>	<b>S27</b>	<b>S06</b>	<b>S11</b>	<b>S25</b>	<b>S23</b>	<b>S30</b>
<b>A</b>	Soil Organic Matter	Sustainability and Soil Fertility	New concepts and methods in soil biology	Soil Classification	The Influence of Soil Quality on Human Health and Food Security - Introductory lectures	Soil and Water Theory	Contaminants – detection, transport, evaluation	Memory function of soil constituents	The rhizosphere: a complex micro-environment	Events or duration of influence cause soil changes
12:30	<b>Lunch Break / Poster Session 1</b>									
14:00	<b>S01</b>	<b>S28</b>	<b>S08</b>	<b>S20</b>	<b>S27</b>	<b>S06</b>	<b>S11</b>	<b>S25</b>	<b>S23</b>	<b>S30</b>
<b>B</b>	Soil Organic Matter - Dynamics	Nitrogen, Part I	Decomposition by microbial communities	Soil Classification	The Influence of Soil Quality on Human Health and Food Security - Experiments	Modelling of Soil and Water	Contaminants – detection, transport, evaluation	Memory function of soil constituents	Rhizosphere processes in different environments	Identification of soil change through methodological innovations
16:00	<b>Coffee Break</b>									
16:30	<b>S01</b>	<b>S28</b>	<b>S08</b>	<b>S20</b>	<b>S27</b>	<b>S06</b>	<b>S11</b>	<b>S25</b>	<b>S23</b>	<b>S30</b>
<b>C</b>	Soil Organic Matter - Dynamics	Nitrogen, Part II	Microbial communities in time and space	Soil Classification	The Influence of Soil Quality on Human Health and Food Security - Modelling	Measurements in Soil and Water	Contaminants - accumulation, bioavailability, application of materials	Environmental reconstruction	Rhizosphere modelling and cutting-edge methodology	Characterisation of dynamic processes in soils
18:00										

# Programme by day – Tuesday, August 26, 2008

## Tuesday

August 26, 2008

Symposia / Sessions

	HS 8	Fest saal	HS 11	HS 18	HS 13	HS 6	HS 7	HS 17	HS 14A	Böckl Saal
08:30	S01	S28	S08	S16	S03	S19	S11	S13	S21A	S26
<b>D</b>	Soil Organic Matter - Stabilization	Climate, Fertilization and Soil Fertility	Soil microorganisms and environmental change	Soil indicator sets	Assessing soil erosion	Andosols and Soil Mineralogy	Contaminants - accumulation, bioavailability, application of materials / Phytoremediation	The nano scale	Society's demands for and perception of soil conservation	Methods and Approaches of Pedometrics
10:30	Coffee Break									
11:00	S01	S28	S08	S16	S03	S19	S11	S13	S21A	S26
<b>E</b>	Soil Organic Matter - Properties	Chemical and Biological Soil Fertility	Soil biota and soil function	Indicators for specific soil threats	Modelling soil erosion	Soil Stratification and Sediments	Phytoremediation	Metal behaviour	Society's demands for and perception of soil conservation	DEM/DTM Exploitation in Digital Soil Mapping
12:30	Lunch Break / Poster Session 2									
14:00	S01	S28	S08	S16	S03	S19	S11	S13	S21B	S26
<b>F</b>	Soil Organic Matter - Properties	Nutrients, Soils and Environment	Ecological engineering by soil fauna	New approaches for soil indicators	Quantitative assessment of soil erosion	Soils of mountainous and cold regions	Remediation and Natural Attenuation	Retention and soil development	Local and Regional Case Studies	Geophysics and Other Auxiliary Data Exploitation in DSM
16:00	Coffee Break									
16:30	S01	S28	S08	S16	S03	S19	S11	S13	S21B	S26
<b>G</b>	Soil Organic Matter - Properties	Phosphorus and Soil Fertility	The nature of microbial biomass	Challenges for soil indicator development	Measurements of soil erosion	Humans as soil forming factor	Remediation and Natural Attenuation	Practical experiences and mitigation	Conceptual Issues in Soil History	Pedometrical Applications
18:00										



# Programme by day – Thursday, August 28, 2008

Thursday										
August 28, 2008										
Symposia / Sessions										
	HS 8	Fest saal	HS 11	HS 18	HS 13	HS 6	HS 7	HS 17	HS 14A	Böckl Saal
08:30	S01	S01	S01	S01	S01	S01	S01	S01	S01	S01
<b>H</b>	Soil Organic Matter - Stocks and Stock Changes	Potassium, Liming and Wastes	Factors Influencing Land Use	Soil monitoring general issues	Soil moisture regimes I	Vegetation - Soil Interactions	Soils and Climate Change	Urban vs Anthropogenic Soils	Soils and GMOs	Rheological processes in soils as structured systems
10:30	Coffee Break									
11:00	S01	S28	S17	S10	S07	S09	S02	S18	S24	S04
<b>I</b>	Soil Organic Matter - Climate Change	Biodegradation and Bioavailability	Soil Degradation	Development of national soil monitoring systems	Soil moisture regimes II	Carbon	Soils and Climate Change	Urban Soils Contamination	Soils and GMOs	Stress strain effects
12:30	Lunch Break / Poster Session 3									
14:00	S01	S28	S17	S10	S07	S09	S02	S18	S29	S04
<b>J</b>	Soil Organic Matter - Land use	Inorganic and Organic Pollutants	Soil Protection	Results coming from soil monitoring systems	Moisture flow in soils	Forest operations - impacts on nutrition	Soils and Climate Change	Specific properties of Urban Soils	Pedogenesis and Rates of Pedogenic Processes	Deformation processes and modelling
16:00	Coffee Break									
16:30	S01	S28	S17	S10	S07	S09	S02	S18	S29	S04
<b>K</b>	Soil Organic Matter - Modelling	Unfavorable Soil Conditions	Land Management	Results coming from soil monitoring systems	Soil physics	Forest operations - impacts on nutrition	Soils and Climate Change	Urban Soils, their Quality and Functions	Soil Systems and Soil Body	Consequences of soil deformation on physical properties
18:00										

# Programme by day – Friday, August 29, 2008

## Friday

August 29, 2008

Symposia / Sessions

	HS 8	Fest saal	HS 11	HS 18	HS 13	HS 6	HS 7	HS 17	HS 14A	Böckl Saal
08:30	S14	S15	S05	S07	S09	S22	S12			
<b>L</b>	Organo-Mineral Interactions I	Soil Information systems - the State of Art	Overview of Soil Desertification and Salinisation Processes	Climate and soil hydrological processes	Water relations	SOIL: from reality to virtuality	Management of Contaminated Soils: concepts and policy development I			
10:30	<b>Coffee Break</b>									
11:00	S14	S15	S05	S07	S09	S22	S12			
<b>M</b>	Organo-Mineral Interactions II	Application of GIS on solving of soil related problems	Assessment of Soil Desertification and Salinisation	Irrigation	Water relations II	Awakening consciousness and raising awareness about soil	Management of Contaminated Soils: concepts and policy development II			
12:30	<b>Lunch Break / Poster Session 4</b>									
14:00	S14	S15	S05	S07	S09	S22				
<b>N</b>	Organo-Mineral Interactions III	Application of GIS on solving of soil related problems	Mechanisms of Soil Degradation and the Means for Recuperation	Soil-water-plant relationships	Biogeochemistry	Connecting Soil to Society				
16:00	<b>Coffee Break</b>									
17:00	<b>Closing Ceremony (Festsaal)</b>									
18:00										

## Opening Ceremony

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**Auditorium of the TU Vienna, Getreidemarkt 9**

**Monday, August 25, 2008, 09.00 – 10.30 hrs**

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Welcome by Winfried E.H. Blum  
on behalf of the Organising Committee

Greeting address by Niek de Wit, on behalf of Commissioner Stavros Dimas  
Member of the European Commission

Greeting address by Edith Klauser  
Director General of the Austrian Ministry of Agriculture, Forestry, Environment and Water Resources

Greeting address by Stephen Nortcliff  
Secretary-General of the International Union of Soil Sciences

Lecture by Prof. Daniel Hillel: "Soil and the Evolution of Cultures"

Information about the Congress and its organisation by Winfried E.H. Blum

## Closing Ceremony

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**Festsaal**

**Friday, August 29, 2008, 17.00 – 18.00 hrs**

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- Presentation of 10 Poster Awards and the "Springer Journal Poster Award" to the winners
- Announcement of the new president and vice-president of the European Confederation of Soil Science Societies (ECSSS), of the host country and the venue of the EUROSIL 2012 congress
- Summarising remarks and farewell by Winfried E.H. Blum

# Symposia

	<b>Symposium Title</b>	<b>Convenor</b>	<b>Co-Convenor(s)</b>	<b>Day</b>
<b>S01</b>	<b>Soil Organic Matter</b>	Frank Hagedorn, Switzerland	Heike Knicker, Germany	Monday Tuesday Thursday
<b>S02</b>	<b>Soils and Climate Change</b>	Natasa Jaecks Vidic, Slovenia	Viliam Pichler, Slovakia	Thursday
<b>S03</b>	<b>Soil Erosion</b>	Peter László, Hungary	Lillian Oygarden, Norway José Luis Rubio, Spain	Tuesday
<b>S04</b>	<b>Soil Compaction</b>	Marta Birkas, Hungary	Ferdo Basic, Croatia Rainer Horn, Germany	Thursday
<b>S05</b>	<b>Soil Desertification and Salinisation</b>	Tibor Tóth, Hungary	Jozef Deckers, Belgium	Friday
<b>S06</b>	<b>Soil and Water Theory</b>	Svatopluk Matula, Czech Republic		Monday
<b>S07</b>	<b>Soil and Water - Practical Applications</b>	György Várallyay, Hungary	Eduard Klaghofer, Austria	Thursday Friday
<b>S08</b>	<b>Soil Ecology - Soil as Living Space</b>	Sophie Zechmeister-Boltenstern, Austria	Ellen Kandeler, Germany	Monday Tuesday
<b>S09</b>	<b>Forest Management and Soils</b>	Klaus Katzensteiner, Austria	Jiri Kulhavy, Czech Republic Ernst Leitgeb, Austria	Thursday Friday
<b>S10</b>	<b>Advances in Soil Monitoring</b>	Judit Berényi Üveges, Hungary	Josef Kobza, Slovakia	Thursday
<b>S11</b>	<b>Management of Contaminated Soils I: practical applications</b>	Volker Franzius, Germany	Martin Schamann, Austria	Monday Tuesday
<b>S12</b>	<b>Management of Contaminated Soils II: concepts and policy development</b>	Harald Kasamas, Austria	Joop Vegter, The Netherlands	Friday
<b>S13</b>	<b>Buffering Function of Soils</b>	Martin Gerzabek, Austria	Alessandro Piccolo, Italy	Tuesday
<b>S14</b>	<b>Organo-mineral Interactions</b>	Ruben Kretzschmar, Switzerland	Willem Van Riemsdijk, The Netherlands	Friday
<b>S15</b>	<b>Soil Information Systems, Regionalisation of Soil Data including Soil Associations</b>	Josef Kozak, Czech Republic	Michael Englisch, Austria Christine Le-Bas, France	Friday
<b>S16</b>	<b>Soil Indicators</b>	Sigbert Huber, Austria	Robert Jones, United Kingdom Jens Utermann, Germany	Tuesday
<b>S17</b>	<b>Land Use and Soil Protection</b>	Franc Lobnik, Slovenia	Stephen Nortcliff, United Kingdom	Thursday
<b>S18</b>	<b>Urban and Anthropogenic Soils</b>	Jaroslava Sobocka, Slovakia	Wolfgang Burghardt, Germany	Thursday
<b>S19</b>	<b>Soil Forming Processes and Soil Morphology</b>	Tamas Szegi, Hungary	Peter Schad, Germany	Tuesday
<b>S20</b>	<b>Soil Classification</b>	Erika Micheli, Hungary	Alfred Pehamberger, Austria	Monday
<b>S21A</b>	<b>Society's Demands for and Perceptions of Soil Conservation</b>	Silvia Tobias, Switzerland	Katharina Helming, Germany	Tuesday
<b>S21B</b>	<b>Soils and Societies in History</b>	Verena Winiwarter, Austria	Hans-Rudolf Bork, Germany	Tuesday
<b>S22</b>	<b>Education in Soil Science and Raising Public Awareness</b>	Monika Tulipan, Austria	Mireille Dosso, France	Friday
<b>S23</b>	<b>Rhizosphere Processes</b>	Walter Wenzel, Austria	Hojka Kraigher, Slovenia	Monday
<b>S24</b>	<b>Soils and GMOs</b>	Angela Sessitsch, Austria	Kornelia Smalla, Germany	Thursday
<b>S25</b>	<b>Memory Function of Recent and Paleosoils</b>	György Füleky, Hungary	Adrijan Kosir, Slovenia	Monday
<b>S26</b>	<b>Pedometrics and Digital Soil Mapping</b>	Lubos Boruvka, Czech Republic	Endre Dobos, Hungary	Tuesday
<b>S27</b>	<b>The Influence of Soil Quality on Human Health and Food Security</b>	Andreas Baumgarten, Austria	Wolfgang Friesl-Hanl, Austria Eiliv Steinnes, Norway	Monday
<b>S28</b>	<b>Soil Fertility and Environment</b>	Milan Mesic, Croatia	Rok Mihelic, Slovenia	Monday Tuesday Thursday
<b>S29</b>	<b>Time scales of pedogenic processes for predicting soil changes in time</b>	Victor Targulian, Russia	Attila Barci, Hungary	Thursday
<b>S30</b>	<b>Micromorphological and mineralogical features (evidence) of soil environmental change</b>	Karl Stahr, Germany		Monday

# Scientific Programme – Description Symposia

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## SYMPOSIUM 1 - Soil organic matter

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*Convenor: Frank Hagedorn, Switzerland*

*Co-convenor: Heike Knicker, Germany*

*Keynote speaker: Bernd Marschner, Germany*

Soil organic matter (SOM) plays a central role in the global carbon cycle and influences all soil functions. During the last years new tools have been developed to address important research questions:

- (1) How does OM become stabilized in soils?
- (2) What are the feedbacks between global warming and SOM?
- (3) How can we manage the functional role of SOM?
- (4) And how can we link modelling and analyses of SOM to quantify SOM cycling?

We invite contributions using innovative methods to elucidate the chemical structure of SOM, creative experimental approaches to determine the functional role of SOM and new developments of models to estimate SOM turnover.

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## SYMPOSIUM 2 - Soils and climate change

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*Convenor: Natasa Jaecks Vidic, University Ljubljana, Slovenia*

*Co-convenor: Viliam Pichler, Tech. Univ. Zvolen, Slovakia*

*Keynote speaker: Anthony Dexter, France*

Soils and agriculture both share in greenhouse gas production effecting global terrestrial systems on the contrary to forest and water supply which contribute to maintenance of ones. Identification and prediction of climate change impacts on soil resources and their functions are referred to production and ecological priorities. It assumes definition of pedogenetic and anthropogenic processes in soils to be expected in changed climate conditions including degradation impact assessment. I.e. decrease of organic matter in soil, changed soil moisture conditions, possible intensive erosion, accelerated mineralization and nutrient regime, salinization in aspect of expected drought, etc. Adaptable measurement proposals are inevitable to consider. As general measure against negative impacts will consists in: a) increase of carbon sequestration in soil, b) stabile organic matter formation, c) construction of multifunctional and ecologically stabilized landscape including anti-erosion treatments. Acceptable are contribution with innovative concepts and methods of technological measurement in soil water management, soil fertility conservation, soil erosion and/or salinization mitigation.

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## SYMPOSIUM 3 - Soil erosion

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*Convenor: Péter László, RISSAC, Hungary*

*Co-Convenors: Lilian Oygarden, Norway; José Luis Rubio, Spain*

*Keynote speaker: Peter Strauss, Austria*

Soil erosion is a natural process, occurring over geological time. Most concerns about erosion are related to accelerated erosion, where the natural rate has been significantly increased by human activities such as changes in land cover and management. Soil erosion is among the major environmental threats related to agricultural land use in Europe. The general objective of this Symposium is to evaluate the state of the art in research in the field of erosion by water in Europe. to allow scientists to meet and exchange ideas on related topics and to initiate further collaborations. The main themes involved are: (i) Measurement; (ii) Processes; (iii) Erosion rates; (iv) Erosion factors; (v) Role of vegetation cover and management;; (vi) Modelling; (vii) Spatial and temporal variability; (viii) Digital mapping and upscaling. A special attention will be paid to the development of monitoring studies based on integrated field and modelling approaches and scenario analyses for potential effects of climate changes.

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## SYMPOSIUM 4 - Soil compaction

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*Convenor: Márta Birkás, Hungary*

*Co-Convenors: Ferdo Basic, Croatia, Rainer Horn, Germany*

*Keynote speaker: Berndt-Michael Wilke, Germany*

Compaction is one of the most important soil quality indicators reflecting the potential for environmental damage and the physical state of the soil resources. The symposium will discuss the origin, risks, factors, and prevention possibilities of both natural and human induced processes. Papers and posters on the following subjects are welcome: (1) Subsoil compaction monitoring and measuring on the fields. (2) Tillage consequences. (3) Environmental consequences. (4) Impacts on soil biological activity. (5) Impacts on soil water management (drought sensitivity, water-logging). (6) Prevention of farming losses. (7) New challenges in subsoil compaction research and assessment.

# Scientific Programme – Description Symposia

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## **SYMPOSIUM 5 - Soil desertification and salinisation**

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*Convenor: Tibor Tóth, Hungary*

*Co-convenor: Jozef Deckers, Belgium*

*Keynote speaker: José Alvarez, Spain*

Soil desertification and salinization affect 3.6 billion and 0.83 billion hectares worldwide, respectively. Although these are natural degradation processes, the human-induced desertification and salinization cause large damage to the economy. The symposium will focus on the spatial and temporal assessment of these degradations, the mechanisms by which desertification and salinization spread, the management of affected areas, remediation and strategies for minimizing degradation. Modeling of desertification and salinization/sodification/alkalization as the basis of management decisions, especially in irrigated agriculture will be discussed. Off-site effects of the degradation and the societal consequences will be integral part of the work of the symposium. Questions concerning native vegetation and fauna as well as protection of native desert and saline ecosystems will also be included.

## **SYMPOSIUM 6 - Soil and water - theory**

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*Convenor: Svatopluk Matula, Czech Republic*

*Keynote speaker: Svatopluk Matula, Czech Republic*

This symposium will discuss mainly the following topics:

New methods applicable to describe different transport of water and/or liquids in porous systems of soils;

- 1) Advances in methods of various soil hydrophysical properties determination (soil water content, soil water potential, hydraulic conductivity);
- 2) Advances in methods of other soil properties determination (electrical conductivity, soil permittivity, soil dielectric properties, ...);
- 3) Flow and transport processes in different porous media (fractures porous media, preferential flow);
- 4) Soil structure and its relation to fractured porous media and preferential flow;
- 5) Applications and interpretations of soil and water relationship theory, computer modelling, soil properties determination and measurement techniques (environmental applications, natural resources protection, precision agriculture etc.).

## **SYMPOSIUM 7 - Soil and water – practical applications**

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*Convenor: György Várallyay, Hungary*

*Co-convenor: Eduard Klaghofer, Austria*

*Keynote speaker: Rainer Horn, Germany*

Water, as reactant, solvent and transporting agent plays an important, sometimes decisive role in the mass and energy regimes of soils, in the transport and transformation of various substances. Soil and land-site characteristics

- \* determine the moisture supply of plants (natural vegetation and cultivated crops);
- \* are responsible for different extreme moisture situations (flooding, waterlogging, overmoistening – drought); and
- \* influence the air and heat regimes of soils; the soil biota; the biogeochemical processes of plant nutrients and potentially harmful soil pollutants.

In the Symposium the practical aspects of soil moisture regime will be discussed. Beginning from the practical application of theoretical findings, followed by new measurement, computation and modelling techniques; the water relations of various soil degradation processes and biogeochemical cycles of elements cycles for their efficient control. Special attention will be paid to the „early alarm” systems, forecast and prognosis to give scientifically based possibilities for the prevention of the unfavourable processes and their ecological, economical and social consequences. The impacts of potential climate changes on the soil hydrological processes will also be discussed (based on scenario analysis).

## **SYMPOSIUM 8 - Soil ecology – soil as a living space**

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In co-operation with the Research Focus "Functional Ecology and Global Change", Faculty of Life Sciences, University of Vienna

*Convenor: Sophie Zechmeister-Boltenstern, Austria*

*Co-convenor: Ellen Kandeler, Germany*

*Keynote speaker: Liliane Ruess, Germany*

Life on Earth relies on life in earth, a habitat resembling a labyrinth. The structural organisation in a soil is the basis for the development of a specific soil community. The heterogeneity of microbial distribution and life strategy play a crucial role in terrestrial food web organization, but very little is known about the spatial organization of soil microorganisms across scales that are relevant both to microbial function and to field-based processes. At the molecular level, the topics of interest are transport of

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substrates within the physical soil environment and enzymological characteristics of degradation; at the organismal level, the focus is on functional gene analyses, regulation of enzyme expression and growth kinetics, whereas at the community level, research concentrates on metabolism, microbial successions and competition between microbial and faunal communities. Soil physical and biochemical techniques, isotopic studies and new molecular biology techniques are rapidly evolving disciplines that hold promise to provide new insights into the complex interactions of microorganisms and soil. Our objective is to improve the interface among researchers working in various fields of soil biology in order to deepen our understanding of soil resilience and ecosystem sustainability.

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### **SYMPOSIUM 9 - Forest management and soils**

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*Convenor: Klaus Katzensteiner, Austria*

*Co-convenors: Ernst Leitgeb, Austria; Jiri Kulhavy, Czech Republic*

*Keynote speakers: Helga Van Miegroet, United States; Klaus von Wilpert, Germany; Jan Cermak, Czech Republic*

The symposium will be a forum to present most recent advancements in research on forest management impacts on soil. This symposium will discuss mainly the following topics:

1. Plant- soil feedback: a. Vegetation dynamics and soil  
b. Tree species and soil  
c. Stand treatment and soil
2. Forest soil management in the context of global climate change
3. Soil restoration

With respect to: » Soil physical properties, soil water and soil aeration

» Humus dynamics and carbon sequestration

» Soil chemical processes

» Nutrient cycling

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### **SYMPOSIUM 10 - Advances in soil monitoring**

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*Convenor: Judit Berényi Üveges, Hungary*

*Co-convenor: Josef Kobza, Slovakia*

*Keynote speaker: Dominique Arrouays, France*

Most societies realized the problems of different types of soil degradation. To gain information on the extent of the problem and to establish a basis for developing soil conservation policies information is needed on the soil status and its changes over time. This symposium emphasizes the role of soil monitoring in delivering information on changing soil parameters, important for soil functions, such as nutrient status, organic matter, biodiversity, heavy metal contamination, etc., and the need for harmonised methodologies to monitor changes in soil quality in order to protect soil resources and to improve comparability of soil data important for policy development. The main focus of the symposium is the methods suitable for following soil degradation processes and the results of the combat against them, but also other soil monitoring issues are welcome.

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### **SYMPOSIUM 11 - Management of contaminated soils - practical applications**

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*Convenor: Volker Franzius, Germany*

*Co-convenor: Martin Schamann, Austria*

*Keynote speaker: Jan Skowronek, Poland*

The European Environment Agency estimates the number of contaminated sites in Europe with app. 300.000 either industrial sites or landfills or other local sources posing significant risks to human health or to the environment. Such chemical contamination can be a major stumbling block hindering sustainable development. A total clean-up of these sites is neither economically nor technically feasible. Sustainable approaches are required how to tackle historic contamination by taking into consideration main elements of a "risk based land management", such as: making land fit for use by considering in the same time the protection of the environment and long term care of measures undertaken.

We especially seek contributions with innovative risk based approaches for the management of historically contaminated soils, considering aspects like risk reduction, natural attenuation, landuse requirements, managing uncertainties, costs and stakeholder involvement.

The symposium will provide a platform for both the Association of Engineers for Contaminated Sites (ITVA) and the Austrian Association for the Management of Contaminated Sites (ÖVA).

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## **SYMPOSIUM 12 - Management of contaminated soils - concepts and policy development**

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*Convenor: Harald Kasamas, Austria*

*Co-convenor: Joop Vegter, Netherlands*

*Keynote speaker: Joop Vegter, Netherlands*

The European Environment Agency estimates the number of contaminated sites in EU15 with 300.000 to 1.5 million, either industrial sites or landfills or other local sources posing significant risks to human health or to the environment. Such chemical contamination can be a major stumbling block hindering sustainable development. A total clean-up of these sites is neither economically nor technically feasible. Sustainable approaches are required how to tackle historic contamination by taking into consideration main elements of a "risk based land management", such as: risk reduction; land use related requirements; making use of natural capacities in soil and groundwater; costs, stakeholder involvement, managing uncertainties and management constraints and influences.

We especially seek contributions with innovative risk based approaches for the management of historically contaminated soils.

## **SYMPOSIUM 13 - Buffering functions of soils**

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In co-operation with IUSS

*Convenor: Martin H. Gerzabek, Austria*

*Co-convenor: Alessandro Piccolo, Italy*

*Keynote speaker: Kai-Uwe Totsche, Germany*

Among the soil functions, both the retention of pollutants in soil profiles and the resilience against acid deposits are of high importance for the sustainable use of soil resources. Scientific questions concerning these functions are manifold: e.g. (i) Which specific and unspecific interactions between pollutants and the soil matrix are mainly governing their short-, medium- and long-term behaviour? (ii) How does land-use and management influence the retention properties of soil profiles? (iii) Which indicators are appropriate to predict the possible behaviour of pollutants in different soils? (iv) How is it feasible to improve modeling approaches for predictions? These and other related questions should be addressed in symposium 13. We especially seek contributions with innovative concepts and methods, both experimentally and in modelling.

## **SYMPOSIUM 14 - Organo-mineral interactions**

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In cooperation with IUSS

*Convenor: Ruben Kretzschmar, Switzerland*

*Co-convenor: Willem H. van Riemsdijk, Netherlands*

*Keynote speaker: Klaus Kaiser, Germany*

Soil minerals have reactive surfaces which interact with natural organic substances, such as humic and fulvic acids, proteins, polysaccharides, surfactants, and organic acids. Organic molecules adsorbed to mineral surfaces strongly alter the surface charge and adsorption of ions to the mineral surface. Understanding the humic-mineral interaction is also a crucial factor with respect to soil structure and it also affects the bioavailability of many elements. Mineral weathering and crystal growth processes are also strongly influenced by adsorbed organic molecules. Organic substances adsorbed to mineral surfaces are less easily degraded by microorganisms, which has important implications for soil carbon turnover and the long-term fate of organic compounds in soils. We especially seek contributions addressing the chemical processes controlling interactions between organic substances, mineral surfaces and ions using innovative experimental and theoretical approaches.

## **SYMPOSIUM 15 - Soil information systems; regionalization of soil data including soil associations**

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*Convenor: Josef Kozak, Czech Republic*

*Co-convenors: Michael Englisch, Austria; Christine Le Bas, France*

*Keynote speaker: Rainer Baritz, Germany*

The symposium will cover progress in the development of soil GIS as well as in its practical application. It will also cover the progress in mapping of soil regions and soil associations, including development of their classification. The following topics will be discussed:

- State of the art of soil GIS in Europe
- New development in combination of soil and terrain cover (SOTER) in the GIS system
- the use of soil GIS in description and evaluation of ecological functions of soil as well as in planning of proper land use
- The use of GIS for mapping of soil associations (digital mapping)
- Classification of soil associations
- The combination soil GIS mathematical models

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## **SYMPOSIUM 16 - Soil indicators**

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*Convenor: Sigbert Huber, Austria*

*Co-convenors: Jens Utermann, Germany; Robert Jones, United Kingdom*

*Keynote speaker: Nicolaas De Witt, Belgium*

Soil indicators have been developed at a national and international level for many years, to gain information about soil quality and soil processes. Some of the indicators are used in environmental assessment and reporting. For the characterisation of soils and the monitoring of soil threats in Europe, a great number of indicators are needed. Experiences regarding the implementation of indicators as well as proposals for new indicators should be provided. Questions that seem worthwhile to be considered and discussed are:

- How can different parameters be aggregated to an indicator?
- What are the criteria for the selection of soil indicators for environmental reporting?
- How can thresholds for soil indicators be defined?
- Which approaches exist to cope with the scale problem of soil variability and validity of indicator results?
- Which data and research needs should be met until 2012 and beyond?

Best practice examples of soil indicators at different scales as well as innovative concepts and methods for answering the questions raised in this context, are looked for. A panel discussion on needs for further indicator development towards optimal soil information will conclude the symposium.

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## **SYMPOSIUM 17 - Land use and soil protection**

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*Convenor: Franc Lobnik, Slovenia*

*Co-convenor: Stephen Nortcliff, United Kingdom*

*Keynote speaker: Luca Montanarella, Italy*

Soil Protection has increasingly become a focus for environmental policy both nationally and across Europe. Intrinsicly linked to soil protection are decisions concerning the appropriate land use in a particular environmental context. Many of the current threats to soil arise because decisions on land use are inappropriate resulting in environmental imbalance. Whilst the soil system is robust and may withstand these pressures, if the nature and potential impacts of land use generated pressures on the soil system are not fully understood the consequence may be the degradation of the soil and in extreme cases soil loss. This symposium will seek to consider the relationships between land use decisions and soil protection strategies and consider how to ensure that land use decisions are appropriate to the soil and environmental conditions at a site.

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## **SYMPOSIUM 18 - Urban and anthropogenic soils**

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*Convenor: Jaroslava Sobocka, Slovakia*

*Co-convenor: Wolfgang Burghardt, Germany*

*Keynote speakers: Wolfgang Burghardt, Germany; Andreas Lehmann, Germany*

There are invited contributions involving comprehensive understanding of urban soils and anthropogenic soils (Technosols) in the context of specific use of urban, industrial, traffic, mining and military areas with special focus to: a) physical-chemical transformation processes, b) chemical and mineralogical speciation of elements, c) microbial activity, and d) soil contact with ground water table. Quality of urban soils assessment in aspect of specific threshold values of noxious substances (heavy metals, organic pollutants) typical for urban areas and other characteristics (special physical properties, PM10, pathogenic organisms ...). Very important is focus on implementation of innovative and cost-effective field measurement techniques for urban soil quality assessment. We especially appreciate contributions with innovative technology and methodology, both experimentally and modelling. Also development of future strategies in urban soil science research is appropriate.

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## **SYMPOSIUM 19 - Soil forming processes and soil morphology**

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*Convenor: Tamas Szegi, Hungary*

*Co-Convenor: Peter Schad, Germany*

*Keynote speaker: Reinhold Jahn, Germany*

Detection and prediction of changes in soils are fundamental in understanding and managing soils within ecosystems. Modern studies of soil genesis provided information on reversible and irreversible changes and are helpful guidelines in sustainable soil and land use planning. The symposium will discuss the traditional and the state-of-the-art methods of observing, measuring and quantifying soil formation processes. Special attention will be given to human impacts on soil genesis. Papers and posters on application of new methodologies (geostatistics, mineralogy etc.) are also welcome.

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## **SYMPOSIUM 20 - Soil classification**

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*Convenor: Erika Michéli, Hungary*

*Co-Convenors: Alfred Pehamberger, Austria*

*Keynote Speaker: Otto Spaargaren, Netherlands*

Soil classification as a result of human thinking is reflecting the state of knowledge and the needs of the society. The symposium will discuss the demands of modern soil survey and mapping procedures and the recent developments in soil classification systems. Papers and posters on general principles and on the experiences with national soil classification systems as well on the official global correlation scheme, the World Reference Base for Soil Resources (WRB) are welcome.

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## **SYMPOSIUM 21A - Society's demands for and perceptions of soil conservation**

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*Convenor: Silvia Tobias, Switzerland*

*Co-convenor: Katharina Helming, Germany*

*Keynote Speaker: Tomas Ratering, Spain*

Soil is the basis for and strongly influenced by human land use. Socio-economic changes, new demands on land use and soil functions and technical progress entail new requirements and impacts on the soil ecosystem. This symposium addresses the relationship between human being and soil with a strong emphasis on interdisciplinary papers. We particularly focus on the following aspects:

Changing societal demands on soil with socio-economic changes (including demographic changes):

- History of land use and management; anthropogenic changes in soil ecosystems; (natural) regeneration of disturbed soils.
- Opportunities and threats for soil ecosystems due to land use change and landscape design; land and soil restoration after land use change (abandoned coal mines, gravel pits, military sites etc.); urban sprawl, establishment of golf courses, recreational parks etc., marginalisation of land

Perception of soil functions:

- History of soil science; communicating and implementing scientific knowledge in soil protection strategies, practices and in land use planning and management.
- Eliciting and using tacit (intuitive) knowledge from practice, experience, tradition; integrating tacit knowledge in soil protection programs (e.g. on farm scale).

Progress in soil policies:

- Innovative ways and instruments for communicating and implementing modern soil protection strategies.
- Success factors for the implementation of soil protection strategies and programs.

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## **SYMPOSIUM 21 B - Soils and societies in history**

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*Convenor: Verena Winiwarter, Austria*

*Co-convenor: Hans Rudolf Bork, Germany*

*Keynote Speakers: Hans Rudolf Bork, Germany; Verena Winiwarter, Austria*

Soils are the most historical of all elements, in that they preserve the legacies of human use and are affected by anthropogenic factors which lead to long-term changes. Human-soil-interactions have figured prominently in history, such as in the "Dust Bowl" in 1930ies US history. We are looking not only for degradation narratives but for accounts of the whole host of interactions. We invite contributions to all themes in which interactions between humans and soils have figured prominently, such as:

- the history of fertilization techniques - the history of soil conservation techniques (such as e.g. lithic mulching)
- the history of soil perceptions in religion, art, folklore, etc.
- the history of experiential soil knowledge (as opposed to soil science)
- case studies in degradation and /or conservation of soils and all other themes which focus on the role of soils in human history and highlight the interdependency between societies and the soil.

*Ancient Roman Soil Testing (Tuesday, August 26, 2008 - after the Symposium, in front of the lecture hall)*

It was one of the tests Ancient Romans would use to assess the quality of their soils, in particular, if they were planning to plant a vineyard: Mixing the soil with water and tasting the resulting liquid after filtration. They held that salinity or bitterness of the soil is important for viticulture, since the wine will acquire the taste of the ground. According to the Ancient writings, to test for this, one takes clear, fresh water and mixes it thoroughly with a soil sample. Once the mixture is filtered, through an unglazed earthenware or a sieve as used in wine-making - details vary depending on the author - one can cautiously taste the water, which will have taken on the taste of the soil (Col. II,2,20, Verg Georg II 238-247, Pall I, V, 3).

We are re-creating this test and adding to it by making the wine growing on particular soils available to test in comparison.

Earlier examples of this endeavor have shown that in some cases, a marked similarity between tastes is discernible to the soil- and- wine tasting connoisseur. We invite you to participate in this re-creation of Ancient practice.

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## **SYMPOSIUM 22 - Education in soil science and raising public awareness**

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*Convenor: Monika Tulipan, Austria*

*Co-convenor: Mireille Dosso, France*

*Keynote Speaker: Günter Miehlich, Germany*

In order to enable protection and to emphasize the vital importance of soil for life, for every citizen as well as to ensure the sustainable use of soil, public awareness for the fascination of soil should be raised.

In this symposium, it is possible to inform and to exchange experiences about:

new education methods and formats at universities e.g.

- by opening and demonstrating the relevance of soil science to other disciplines,
- by developing multidisciplinary studies for students in the field,
- by using new technologies,
- by reinforcing the high value of scientific field work simply to rediscover the sexiness of soils and soil sciences

and about how to reach non scientists, teachers, pupils, small children, politicians with e.g. public debates, workshops, exhibitions at different scales, living experience, TV, radio, videos, internet portals, real and virtual soil nature trails, games, art and how to open the gates of the soil scientific community.

## **SYMPOSIUM 23 - Rhizosphere processes**

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*Convenor: Walter W. Wenzel, Austria*

*Co-convenor: Hoika Kraigher, Slovenia*

*Keynote speaker: Philippe HINSINGER, France*

The soil – root interface, i.e. the rhizosphere, is distinguished from bulk soil by root-microbial induced modifications of physical, chemical and biological processes and resulting features. Since the days of Lorenz Hiltner, who coined the term “rhizosphere” in 1904, we have seen enormous progress in our understanding of individual rhizosphere processes on the micro-scale. Yet, owing to the complexity of this microenvironment, we are still far from understanding the interactions between processes and, in particular, their combined impact on nutrient and water efficiency or on pollutant bioavailability at the macro-scale, i.e. in the field. However, for management of water and nutrient efficiency in low input farming, and of the bioavailability of pollutants in contaminated soils, it is important to know how the various rhizosphere processes and related feedback loops interact, and as to whether these interactions result in magnification of desired effects or not.

The symposium aims at providing an overview on the state-of-the art of process-oriented research in rhizosphere ecology with emphasis on process interactions and feedback loops. Special attention is also given to scaling problems and the related need of combining experimental and mathematical modelling approaches to enhance our understanding of the rhizosphere. These fundamental aspects are discussed in the context of their significance for the development of rhizotechnologies for sustainable land management.

## **SYMPOSIUM 24 - Soils and GMOs**

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*Convenor: Angela Sessitsch, Austria*

*Co-convenor: Kornelia Smalla, Germany*

*Keynote Speaker: Michael Schloter, Germany*

Soil is one of the most important resources and the soil microflora is mediating highly important geochemical processes. Soils act as growth substrates for plant growth and plant-associated microorganisms play key roles in the nutrition and stress tolerance of plants as well as in antagonizing plant pathogens. On the one hand potential effects of genetically modified organisms on the soil ecosystem have world-wide raised concerns, whereas on the other hand GMOs including, e.g. genetically modified biofertilizers or bioremediation agents, may lead to reduced chemical inputs. This symposium will address issues of biosafety and possible consequences of GMOs on the soil environment as well as new, promising applications of GMOs to be used in agriculture or bioremediation.

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## **SYMPOSIUM 25 - Memory function of recent and paleosoils**

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*Convenor: György Füleky, Hungary*

*Co-convenor: Adrijan Kosir, Slovenia*

*Keynote Speaker: Roger Langohr, Belgium*

Soil memory concerns both ability to record environmental and soil processes and the record of these processes itself. The main goal of this symposium is to identify the environmental conditions and pedogenic processes acting on the land surface from the resistant soil solid phase carriers and to extract all the information from the carriers of soil memory of different hierarchical level. Papers and posters on the following subjects are welcome: (i) Reconstruction of past landscapes, (ii) Interpretations of the paleoenvironmental conditions governing the development of landscapes including the influence of human impact, (iii) Estimations and quantifications of pedogenic processes in natural and human impacted systems, (iv) Interpretations of archaeological records associated with soils.

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## **SYMPOSIUM 26 - Pedometrics and digital soil mapping**

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*Convenor: Lubos Boruvka, Czech Republic*

*Co-convenor: Endre Dobos, Hungary*

*Keynote Speaker: Richard Murray Lark, United Kingdom*

The symposia will cover the emerging quantitative techniques to characterize soil properties and assess its variation in time and space. Increasing amount of soil information, emerging auxiliary data, and technical progress enable new advanced ways of soil data analysis and processing, including digital soil mapping and database development. This symposium will discuss mainly the following topics:

- New methods applicable to assess the spatial variation of soils, digital soil mapping (hybrid methods, fuzzy methods, fractal analysis, artificial neural networks etc.)
- Soil data acquisition, sampling optimization for different purposes
- Auxiliary data (digital terrain model, remote sensing etc.) exploitation, new auxiliary data sources; soil inference systems
- Temporal and spatio-temporal variation of soil, its description and assessment
- Accuracy assessment of soil assessment outputs and digital soil maps
- Applications and interpretations of pedometrics and digital soil mapping (environmental issues, soil classification and allocation, precision farming, soil development etc.)

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## **SYMPOSIUM 27 - The influence of soil quality on human health and food security**

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*Convenor: Andreas Baumgarten, Austria*

*Co-convenors: Wolfgang Friesl, Austria; Eiliv Steinnes, Norway*

*Keynote Speakers: Eiliv Steinnes, Norway; Brian Alloway, United Kingdom*

The impact of pathogens and toxic chemical substances in soil on human health directly and through transfer to food crops has received considerable attention. Through research in the field of "geomedicine" it has become apparent that the natural contents of elements in the soil may be far more important to human health than soil scientists or medical researchers have been aware of, either through deficiency or excess of the element in food crops grown on the soil. In this symposium the influence of natural factors as well as man-made changes in soils on human health and food security shall be highlighted.

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## **SYMPOSIUM 28 - Soil fertility and environment**

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*Convenor: Milan Mesic, Croatia*

*Co-convenor: Rok Mihelic, Slovenia*

*Keynote Speaker: Nemeth Tamas, Hungary*

Maintenance of soil fertility is one of the important continuing tasks according to the concept of sustainable land use. Increased soil fertility is desirable but excessive addition of mineral and organic fertilizers and other soil amendments can become unfavorable, because of increased emission of specific pollutants to the environment. Complicated relations between physical, chemical and biological components of soil fertility as well as human influence on soils can be decisive for overall impact to the environment. Important parts of global cycles of many elements are carried out in soils. Among them carbon and nitrogen are often in the focus when problems of air quality and climate change are discussed. Nitrogen and phosphorus are essential plant nutrients, but in water environment they can cause pollution and eutrophication. Heavy metals, other inorganic and many organic pollutants can be emitted to the environment if soils are contaminated and fertility of such soils is endangered. Lower soil fertility in global cannot be accepted in a long-term, especially if food production is considered. Relations between components of soil fertility and environment should be addressed in this symposium.

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## **SYMPOSIUM 29 - Time scales of pedogenic processes for predicting soil changes in time**

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*Convenor: Victor Targulian, Russia*

*Co-convenor: Attila Barczi, Hungary*

*Keynote speaker: Richard Arnold, United States*

The qualitative knowledge of soil system behavior in time is a crucial point for understanding and predicting both natural and human-induced soil changes in recent pedosphere. The study of soils dated by any kinds of methods (  $^{14}\text{C}$ , archeological, historical, geological, geomorphological, etc) gives to pedology information about pedogenesis duration under the given environment and allow to count the rates and/or characteristic times of the main specific pedogenic processes. The symposium aims to collect these characteristics for different soils and related environments, to group them in spatial and temporal hierarchy, i.e. describe their dependence from natural and anthropogenic factors, from the depths of soil horizons, from intensity of soil system functioning and, at last, to divide the whole set of pedogenic processes into fast, medium rate and slow ones. Such accumulated knowledge could be applied to the estimation of possible responses of different soils on different natural and anthropogenic impacts and to the assessment of reversibility/irreversibility of soil changes in time (soil resilience). It gives in turn the possibility to built various predicting (semi)qualitative scenarios of soil changes related to the general problem of the biosphere/geosphere global change

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## **SYMPOSIUM 30 - Micromorphological and mineralogical features (evidence) of soil environmental change**

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*Convenor: Karl Stahr, Germany*

*Co-convenor: Maria Gerassimova, Russia*

*Keynote Speaker: Karl Stahr, Germany*

Mineralogy and Micromorphology are generally and historically fields of science which observe and explain conservative features of soils. However new formations generally formed at surfaces of cracks and voids. It is well known that the porespace of soils is the spectrum of methods to analyse mineral and surfaces, especially with small dimensions has significantly grown the last 20 years. However the interpretation of environmental change needs criminalistic energy in order to combine the right methods to reconstruct and elucidate processes which took place at the microscale of our soils. Therefore environmental detectives are encouraged a fantastic and interesting laboratory of nature. Reactions taking place in this laboratory result in changes at the pore walls (dissolution, precipitation, structural changes).

Luckily the spectrum of methods to analyse mineral and surfaces, especially with small dimensions has significantly grown the last 20 years. However the interpretation of environmental change needs criminalistic energy in order to combine the right methods to reconstruct and elucidate processes which took place at the microscale of our soils. Therefore environmental detectives are encouraged to contribute to this symposium.

## Symposia – Monday, August 25, 2008 – Block A (11:30 – 12:30)

HS 8	Festsaal	HS 11	HS 18	HS 13
<b>S01.A</b> <b>Soil Organic Matter</b>  Chair: <i>Frank Hagedorn</i> <i>Birmensdorf, Switzerland</i>	<b>S28.A</b> <b>Soil Fertility and Environment</b>  Chair: <i>Milan Mesic</i> <i>Zagreb, Croatia</i> <i>Rok Mihelic</i> <i>Ljubljana, Slovenia</i> <i>Erich Inselsbacher</i> <i>Vienna,</i>	<b>S08.A</b> <b>Forest Management and Soils</b>  Chair: <i>Ellen Kandeler</i> <i>Stuttgart, Germany</i> <i>Sophie Zechmeister-Boltenstern</i> <i>Vienna, Austria</i>	<b>S20.A</b> <b>Soil Classification</b>  Chair: <i>Erika Micheli</i> <i>Gödöllő, Hungary</i> <i>Alfred Pehamberger</i> <i>Vienna, Austria</i>	<b>S27.A</b> <b>The Influence of Soil Quality on Human Health and Food Security</b>  Chair: <i>Andreas Baumgarten</i> <i>Vienna, Austria</i>
<b>S01.A.KL</b> Stabilization of organic matter in top- and subsoils: Mechanisms and Mysteries  <i>Bernd Marschner</i> <i>(Bochum, Germany)</i>	<b>S28.A.KL</b> Sustainability investigations at farm level on Nitrate Vulnerable Zones  <i>Tamás Németh</i> <i>(Budapest, Hungary)</i>	<b>S08.A.KL</b> Unravel the black box - biochemical markers provide new insight into multitrophic interactions in soil  <i>Liliane Ruess</i> <i>(Darmstadt, Germany)</i>	<b>S20.A.KL</b> The need for an overarching European soil classification  Otto Spaargaren (Wageningen, Netherlands)	<b>S27.A.KL</b> Soils and Geomedicine  <i>Eiliv Steinnes</i> <i>(Trondheim, Norway)</i>
<b>S01.A.01</b> Decomposition of Norway spruce needles and fine roots - how much is mineralized and how much is leached as DOC?  <i>Dan Berggren Kleja</i> <i>(Uppsala, Sweden)</i>	<b>S28.A.01</b> Nitrogen budget and nitrogen stock in soils under organic and conventional farming  <i>Christine Bosshard</i> <i>(Zürich, Switzerland)</i>	<b>S08.A.01</b> Struggling with scales in tracing diversity, distribution and expression patterns of fungal and bacterial laccase genes in soils  <i>Francois Buscot</i> <i>(Halle/Saale, Germany)</i>	<b>S20.A.01</b> Using WRB 2006 in mapping and database design: practical issues at European scales  <i>Arwyn Jones</i> <i>(Ispra, Italy)</i>	<b>S27.A.01</b> Changes of trace element concentrations in wheat - data from Swedish long-term field experiments  <i>Holger Kirchmann</i> <i>(Uppsala, Sweden)</i>

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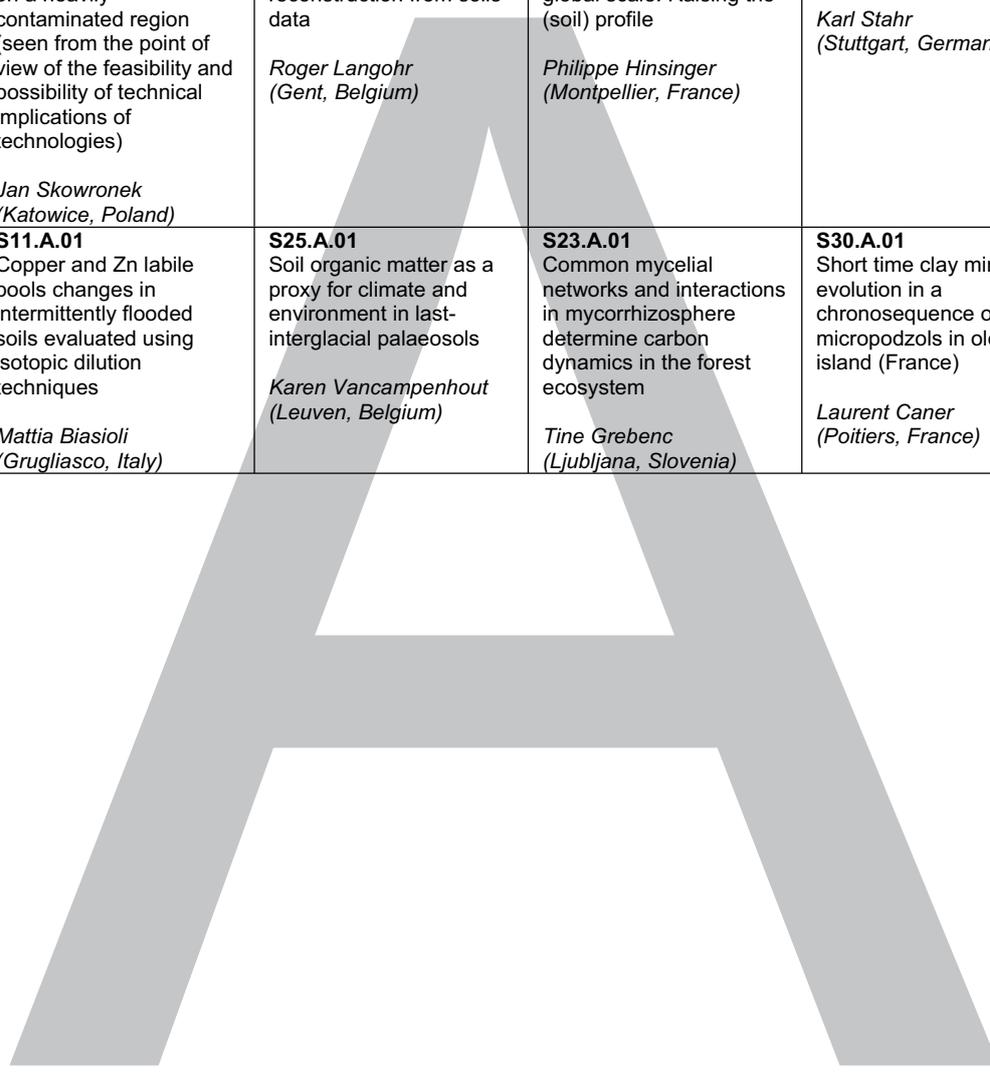
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## Symposia – Monday, August 25, 2008 – Block A (11:30 – 12:30)

HS 6	HS 7	HS 17	HS 14A	Böcklsaal
<p><b>S06.A</b> <b>Soil and Water Theory</b></p> <p>Chair: <i>Svatopluk Matula</i> <i>Prague, Czech Republic</i></p>	<p><b>S11.A</b> <b>Contaminants – detection, transport, evaluation</b></p> <p>Chair: <i>Martin Schamann</i> <i>Vienna, Austria</i></p>	<p><b>S25.A</b> <b>Memory function of soil constituents 1</b></p> <p>Chair: <i>György Füleky</i> <i>Gödöllő, Hungary</i></p>	<p><b>S23.A</b> <b>The rhizosphere: a complex microenvironment</b></p> <p>Chair: <i>Walter Wenzel</i> <i>Vienna, Austria</i></p>	<p><b>S30.A</b> <b>Events or duration of influence cause soil changes</b></p> <p>Chair: <i>Karl Stahr</i> <i>Stuttgart, Germany</i> <i>Karin Eusterhues</i> <i>Jena, Germany</i></p>
<p><b>S06.A.KL</b> Hydropedology as one of „Hydro-sciences“ and important part of Soil and Water Relationship</p> <p>Svatopluk Matula (Prague, Czech Republic)</p>	<p><b>S11.A.KL</b> Management of local and diffuse soil contamination on a heavily contaminated region (seen from the point of view of the feasibility and possibility of technical implications of technologies)</p> <p><i>Jan Skowronek</i> <i>(Katowice, Poland)</i></p>	<p><b>S25.A.KL</b> Facing constraints in environmental reconstruction from soils data</p> <p><i>Roger Langohr</i> <i>(Gent, Belgium)</i></p>	<p><b>S23.A.KL</b> Rhizosphere processes from the microsite to the global scale: Raising the (soil) profile</p> <p><i>Philippe Hinsinger</i> <i>(Montpellier, France)</i></p>	<p><b>S30.A.KL</b> How to read the book of soils?</p> <p><i>Karl Stahr</i> <i>(Stuttgart, Germany)</i></p>
<p><b>S06.A.01</b> Soils a key to understand signal propagation and dynamics in hydrological time series in changing ecosystems</p> <p><i>Stefan Engelhardt</i> <i>(Bayreuth, Germany)</i></p>	<p><b>S11.A.01</b> Copper and Zn labile pools changes in intermittently flooded soils evaluated using isotopic dilution techniques</p> <p><i>Mattia Biasioli</i> <i>(Grugliasco, Italy)</i></p>	<p><b>S25.A.01</b> Soil organic matter as a proxy for climate and environment in last-interglacial palaeosols</p> <p><i>Karen Vancampenhout</i> <i>(Leuven, Belgium)</i></p>	<p><b>S23.A.01</b> Common mycelial networks and interactions in mycorrhizosphere determine carbon dynamics in the forest ecosystem</p> <p><i>Tine Grebenc</i> <i>(Ljubljana, Slovenia)</i></p>	<p><b>S30.A.01</b> Short time clay minerals evolution in a chronosequence of micropodzols in oleron island (France)</p> <p><i>Laurent Caner</i> <i>(Poitiers, France)</i></p>



## Symposia – Monday, August 25, 2008 – Block B (14:00 – 16:00)

HS 8	Festsaal	HS 11	HS 18	HS 13
<p><b>S01.B</b> <b>Soil Organic Matter - Dynamics</b></p> <p>Chair: <i>Frank Hagedorn</i> <i>Birmensdorf, Switzerland</i></p>	<p><b>S28.B</b> <b>Nitrogen, Part I</b></p> <p>Chair: <i>Rok Mihelic</i> <i>Ljubljana, Slovenia</i> <i>Letizia Pompili</i> <i>Roma, Italy</i> <i>Milan Mesic</i> <i>Zagreb, Croatia</i></p>	<p><b>S08.B</b> <b>Decomposition by microbial communities</b></p> <p>Chair: <i>Sophie Zechmeister-Boltenstern</i> <i>Vienna, Austria</i> <i>Ellen Kandeler</i> <i>Stuttgart, Germany</i></p>	<p><b>S20.B</b> <b>Soil Classification</b></p> <p>Chair: <i>Erika Micheli</i> <i>Gödöllő, Hungary</i> <i>Alfred Pehamberger</i> <i>Vienna, Austria</i></p>	<p><b>S27.B</b> <b>The Influence of Soil Quality on Human Health and Food Security – Experiments</b></p> <p>Chair: <i>Andreas Baumgarten</i> <i>Vienna, Austria</i></p>
<p><b>S01.B.01</b> Wintertime C-fluxes in a forest soil of the Swiss Jura: Clues from a <sup>13</sup>C labeled litter addition</p> <p><i>Adrian Kammer</i> <i>(Birmensdorf, Switzerland)</i></p>	<p><b>S28.B.01</b> Nitrogen mineralization of winter wheat residues in a temperate climate as affected by tillage intensity</p> <p><i>Annemie Van den Bossche</i> <i>(Ghent, Belgium)</i></p>	<p><b>S08.B.01</b> Substrate availability affect abundance and function of soil microorganisms in the detritusphere</p> <p><i>Christian Poll</i> <i>(Stuttgart, Germany)</i></p>	<p><b>S20.B.01</b> New wine in old wineskins: Why soil maps cannot simply be "translated" from WRB 1998 into WRB 2006</p> <p><i>Peter Schad</i> <i>(Freising-Weihenstephan, Germany)</i></p>	<p><b>S27.B.KL</b> Soil Factors Associated with Zinc Deficiency in Crops and Humans</p> <p><i>Brian Alloway</i> <i>(Reading, United Kingdom)</i></p>
<p><b>S01.B.02</b> Effects of plant litter input on lignin degradation in forest soils</p> <p><i>Thimo Klotzbücher</i> <i>(Bayreuth, Germany)</i></p>	<p><b>S28.B.02</b> Nitrogen management and nitrate leaching on some Dutch dairy farms</p> <p><i>Marthijn Sonneveld</i> <i>(Wageningen, Netherlands)</i></p>	<p><b>S08.B.02</b> Fate of crop residues incorporated in soil: towards linking microbial diversity and evolution of organic matter</p> <p><i>Noémie Pascault</i> <i>(Dijon, France)</i></p>	<p><b>S20.B.02</b> Data harmonization and database development for a transnational area along the Hungarian-Slovakian border</p> <p><i>Endre Dobos</i> <i>(Miskolc, Hungary)</i></p>	
<p><b>S01.B.03</b> Decomposition and microbial colonisation of litter affected by the depth of incubation in a column experiment</p> <p><i>Nils Rottmann</i> <i>(Witzenhausen, Germany)</i></p>	<p><b>S28.B.03</b> Nutrients soil and gate balances in beef cattle production systems of southern Chile and their implications for the environment</p> <p><i>Marta Alfaro</i> <i>(Osorno, Chile)</i></p>	<p><b>S08.B.03</b> Short term bacterial community structure dynamics in forest soil and litter: an in situ study in a CarboEurope site</p> <p><i>Nicolas Chemidlin Prevost-Boure</i> <i>(Orsay, France)</i></p>	<p><b>S20.B.03</b> WRB and large scale soil inventory - possibilities and limitations</p> <p><i>Aldis Karklins</i> <i>(Jelgava, Latvia)</i></p>	<p><b>S27.B.01</b> May nutritionally relevant elements in grains be influenced by the choice of site and/or variety?</p> <p><i>Heide Spiegel</i> <i>(Vienna, Austria)</i></p>
<p><b>S01.B.04</b> Soil biodegradation of maize roots: relative importance of chemical characteristics and endogenous microflora</p> <p><i>Gaylord Erwan Machinet</i> <i>(Reims, France)</i></p>	<p><b>S28.B.04</b> Soil N dynamic as affected by tillage and N fertilisation in a mediterranean semiarid agroecosystem</p> <p><i>Carlos Cantero-Martinez</i> <i>(Lleida, Spain)</i></p>	<p><b>S08.B.04</b> Resource limitation of microbial decomposition: the effect of tree girdling and fertilization on belowground C and N fluxes</p> <p><i>Christina Kaiser</i> <i>(Vienna, Austria)</i></p>	<p><b>S20.B.04</b> The conversion of a national soil classification to the World Reference Base. Problems met in Svete, Latvia</p> <p><i>Pieter Jungerius</i> <i>(Amsterdam, Netherlands)</i></p>	<p><b>S27.B.02</b> Tsunami affected agricultural soils of paddy fields in Sri Lanka - improvement of rice yield parameters by soil amendments</p> <p><i>Thomas Reichenauer</i> <i>(Seibersdorf, Austria)</i></p>
<p><b>S01.B.05</b> Effect of litter quality on organic matter composition of earthworm casts</p> <p><i>Ruth Ellerbrock</i> <i>(Müncheberg, Germany)</i></p>	<p><b>S28.B.05</b> Retention and leaching of nitrate after nitrification of pig manure on variable charge soil (Nitisol)</p> <p><i>Frederic Feder</i> <i>(Saint-Denis, Reunion)</i></p>	<p><b>S08.B.05</b> Resource availability and seasonal changes alter the prokaryotic community in a soil of a natural beech forest</p> <p><i>Angela Sessitsch</i> <i>(Seibersdorf, Austria)</i></p>	<p><b>S20.B.05</b> Applicability of WRB 2006 for classification of Slovenian soils</p> <p><i>Tomaz Kralj</i> <i>(Ljubljana, Slovenia)</i></p>	<p><b>S27.B.03</b> Arable soils in Austria contaminated with Cd, Pb, and Zn: How to treat them? Results of four years experiments in the field</p> <p><i>Wolfgang Friesl</i> <i>(Seibersdorf, Austria)</i></p>
<p><b>S01.B.06</b> Implications of rising atmospheric CO<sub>2</sub> concentration for plant biomass and soil organic matter changes on a molecular level</p> <p><i>Guido Wiesenberg</i> <i>(Bayreuth, Germany)</i></p>	<p><b>S28.B.06</b> Tillage intensity: Influence on soil C and soil N - modelling approach based on CANDY</p> <p><i>Enrico Thiel</i> <i>(Halle, Germany)</i></p>	<p><b>S08.B.06</b> Nitrogen cycling in the Rothwald forest soil - microbial communities and effects of environmental change</p> <p><i>Evelyn Hackl</i> <i>(Seibersdorf, Austria)</i></p>	<p><b>S20.B.06</b> Classification Schemes of Soils: Principles, Issues and Purposes for Scientific and Technical Development</p> <p><i>Toma Shishkov</i> <i>(Sofia, Bulgaria)</i></p>	<p><b>S27.B.04</b> Sustainable mitigation and land use options for human health and environmental quality in respect to the nutrition system and the nutrients C, N, P, S</p> <p><i>Klaus Isermann</i> <i>(Hanhofen, Germany)</i></p>

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## Symposia – Monday, August 25, 2008 – Block B (14:00 – 16:00)

HS 6	HS 7	HS 17	HS 14A	Böcklsaal
<p><b>S06.B</b> <b>Modelling of S&amp;W</b></p> <p>Chair: <i>Anthony Frison</i> <i>Olivet, France</i></p>	<p><b>S11.B</b> <b>Contaminants – detection, transport, evaluation (cont'd)</b></p> <p>Chair: <i>Martin Schamann</i> <i>Vienna, Austria</i></p>	<p><b>S25.B</b> <b>Memory function of soil constituents 2</b></p> <p>Chair: <i>György Füleky</i> <i>Gödöllő, Hungary</i></p>	<p><b>S23.B</b> <b>Rhizosphere processes in different environments</b></p> <p>Chair: <i>Hojka Kraigher</i> <i>Ljubljana, Slovenia</i></p>	<p><b>S30.B</b> <b>Identification of soil change through methodological innovations</b></p> <p>Chair: <i>Laurent Caner</i> <i>Poitiers, France</i> <i>Karl Stahr</i> <i>Stuttgart, Germany</i></p>
<p><b>S06.B.01</b> Integrated ecological modeling using pedostructure concept. Problematic and presentation of both computer models, Kamel and KamelSoil</p> <p><i>Valerie Auffray</i> <i>(Montpellier, France)</i></p>	<p><b>S11.B.01</b> Enrichment of Pd, Pt, Au, and Hg from aqua regia soil digests</p> <p><i>Manfred Sager</i> <i>(Vienna, Austria)</i></p>	<p><b>S25.B.01</b> The mycological memory in natural and anthropogenically transformed paleosoils</p> <p><i>Olga Marfenina</i> <i>(Moscow, Russian Federation)</i></p>	<p><b>S23.B.01</b> Changes in mycorrhizosphere functions of ozone stressed forest trees</p> <p><i>Karin Pritsch</i> <i>(Neuherberg, Germany)</i></p>	<p><b>S30.B.01</b> Biotransformation of Fe oxides by <i>Shewanella oneidensis</i></p> <p><i>Karin Eusterhues</i> <i>(Jena, Germany)</i></p>
<p><b>S06.B.02</b> Superhydrophobic surfaces: A model approach to predict contact angle and surface energy of soil particles</p> <p><i>Joerg Bachmann</i> <i>(Hannover, Germany)</i></p>	<p><b>S11.B.02</b> Health-based action levels for metals and organic pollutants in Norwegian soils</p> <p><i>Rolf Ottesen</i> <i>(Trondheim, Norway)</i></p>	<p><b>S25.B.02</b> Near infrared spectroscopy as a tool to identify soil organic matter origin</p> <p><i>Damien Ertlen</i> <i>(Strasbourg, France)</i></p>	<p><b>S23.B.02</b> Mobilization and complexation of Zn and Cd in the rhizosphere of <i>Thlaspi caerulescens</i></p> <p><i>Jörg Luster</i> <i>(Birmensdorf, Switzerland)</i></p>	<p><b>S30.B.02</b> Mineral transformations in soils on mine spoils (Technosols) of abandoned pyrite mine in Wisciszowice (Lower Silesia, SW Poland)</p> <p><i>Lukasz Uzarowicz</i> <i>(Cracow, Poland)</i></p>
<p><b>S06.B.03</b> Estimating Saturated Hydraulic Conductivity In Semiarid Rangeland Using Artificial Neural Network</p> <p><i>Bijan Khalilmoghadam</i> <i>(Isfahan, Iran)</i></p>	<p><b>S11.B.03</b> Cr(VI) transport in typical soils of the North of Portugal</p> <p><i>Bruna Fonseca</i> <i>(Braga, Portugal)</i></p>	<p><b>S25.B.03</b> Links between composition of heavy organo-mineral fractions and forest expansion on grassland with long-term fire history</p> <p><i>Alexander Dümig</i> <i>(Freising-Weihenstephan, Germany)</i></p>	<p><b>S23.B.03</b> A Rhizotest to account for the impact of root-induced changes in the rhizosphere on metal bioavailability to plants: a case study with durum wheat cultivated on Cu-contaminated, former vineyard soils</p> <p><i>Matthieu Bravin</i> <i>(Montpellier, France)</i></p>	<p><b>S30.B.03</b> Direct X-Ray diffraction pattern fitting: an advance in the characterisation of soil clay minerals</p> <p><i>Fabien Hubert</i> <i>(Poitiers, France)</i></p>
<p><b>S06.B.04</b> Modelling the equivalent hydraulic properties and hydraulic functioning of a highly heterogeneous horizon</p> <p><i>Anthony Frison</i> <i>(Orléans, France)</i></p>	<p><b>S11.B.04</b> The use of earthworms to test the efficiency of remediation of oil-polluted soil in tropical Mexico</p> <p><i>Violette Geissen</i> <i>(Villahermosa, Mexico)</i></p>	<p><b>S25.B.04</b> Rare earth elements as tracers of pedogenic processes in old soils</p> <p><i>Cédric Laveuf</i> <i>(Orléans, France)</i></p>	<p><b>S23.B.04</b> Effect of rhizosphere pH on PAH availability</p> <p><i>Christophe Barnier</i> <i>(Vandoeuvre lès Nancy, France)</i></p>	<p><b>S30.B.04</b> Assessment concerning the parent material influence on the clay quality from Romanian chernozems</p> <p><i>Marius Eftene</i> <i>(Bucharest, Romania)</i></p>
<p><b>S06.B.05</b> Improving pedotransfer functions predictions by adding pedological information</p> <p><i>Melanie Weynants</i> <i>(Louvain-la-Neuve, Belgium)</i></p>	<p><b>S11.B.05</b> Sorption behavior of cadmium on zeolite and bentonite</p> <p><i>Mohsen Hamidpour</i> <i>(Isfahan, Iran)</i></p>	<p><b>S25.B.05</b> Nitrogen isotopic studies (<math>\delta^{15}\text{N}</math>) reveal past agricultural activities in soils from a 14th century archaeological site</p> <p><i>Pierre Curmi</i> <i>(Dijon, France)</i></p>	<p><b>S23.B.05</b> Uptake of intact amino acids from soil by plants - a matter of above- and below ground biodiversity?</p> <p><i>Leopold Sauheitl</i> <i>(Bayreuth, Germany)</i></p>	<p><b>S30.B.05</b> Micromorphological identification of various silica polymorphs in geochemically different environments and changing (paleo-)climate in southern Portugal</p> <p><i>Christine Stein</i> <i>(Stuttgart, Germany)</i></p>
<p><b>S06.B.06</b> Confronting typical assumptions of 1-D root water uptake models with 3-D simulations</p> <p><i>Mathieu Javaux</i> <i>(Louvain-la-Neuve, Belgium)</i></p>	<p><b>S11.B.06</b> A strategy for efficient surveying and mapping of soil pollution around a metal smelter</p> <p><i>Andreas Papritz</i> <i>(Zürich, Switzerland)</i></p>	<p><b>S25.B.06</b> Specialities of structure of compound paleosoil later and middle pleistocene on morphological and micromorphological data</p> <p><i>Pavel Panin</i> <i>(Moscow, Russian Federation)</i></p>	<p><b>S23.B.06</b> Response of old, new and organically bred winter wheat cultivars in different farming systems related to arbuscular mycorrhizal fungi</p> <p><i>Isabell Hildermann</i> <i>(Frick, Switzerland)</i></p>	<p><b>S30.B.06</b> Determination of multifractal spectra in three dimensional soil aggregate images</p> <p><i>Alexandra Kravchenko</i> <i>(East Lansing, United States)</i></p>

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## Symposia – Monday, August 25, 2008 – Block C (16:30 – 18:00)

HS 8	Festsaal	HS 11	HS 18	HS 13
<p><b>S01.C</b> <b>Soil Organic Matter - Dynamics</b></p> <p>Chair: <i>Dan Berggren Kleja,</i> <i>Uppsala</i> <i>Uppsala, Sweden</i></p>	<p><b>S28.C</b> <b>Nitrogen - Part II</b></p> <p>Chair: <i>Hubert Tunney</i> <i>Wexford, Ireland</i> <i>Judih Schick</i> <i>Braunschweig, Germany</i> <i>Jeremy Doublet</i> <i>Thiverval Grignon.</i> <i>France</i></p>	<p><b>S08.C</b> <b>Microbial communities in time and space</b></p> <p>Chair: <i>Francois Buscot</i> <i>Halle (Saale), Germany</i> <i>Angela Sessitsch</i> <i>Seibersdorf, Austria</i></p>	<p><b>S20.C</b> <b>Soil Classification</b></p> <p>Chair: <i>Erika Micheli</i> <i>Gödöllő, Hungary</i> <i>Alfred Pehamberger</i> <i>Vienna, Austria</i></p>	<p><b>S27.C</b> <b>The Influence of Soil Quality on Human Health and Food Security - Modelling</b></p> <p>Chair: <i>Eiliv Steinnes</i> <i>Trondheim, Norway</i></p>
<p><b>S01.C.01</b> The increase in dissolved organic matter concentration in leachates from undisturbed soil cores after stop-flow mainly originates from decaying biomass</p> <p><i>Inne De Troyer</i> <i>(Heverlee, Belgium)</i></p>	<p><b>S28.C.01</b> 'Nitrogenome' - Studying nitrogen pathways and soil-plant-microbe relationships in agricultural soils within a standardized microcosm system</p> <p><i>Erich Inselsbacher</i> <i>(Vienna, Austria)</i></p>	<p><b>S08.C.01</b> Microbial diversity affects community response to climatic changes</p> <p><i>Elsa Coucheney</i> <i>(Thiverval Grignon, France)</i></p>	<p><b>S20.C.01</b> Soil Assessment in Austria</p> <p><i>Alfred Pehamberger</i> <i>(Vienna, Austria)</i></p>	<p><b>S27.C.01</b> A GIS-based probabilistic health risk assessment methodology for screening soil pollution</p> <p><i>Axel Sauer</i> <i>(Dresden, Germany)</i></p>
<p><b>S01.C.02</b> Influence of dissolved organic matter movement on the net balance of carbon and nitrogen in pasture soils</p> <p><i>Anwar Ghani</i> <i>(Hamilton, New Zealand)</i></p>	<p><b>S28.C.02</b> Current limitations of the Barometric Process Separation method for quantifying gross nitrification rates in calcareous soils</p> <p><i>Riyad Bisharat</i> <i>(Stuttgart, Germany)</i></p>	<p><b>S08.C.02</b> Functional resilience of soil microbial communities depends on both soil structure and microbial community composition</p> <p><i>Bryan Griffiths</i> <i>(Wexford, Ireland)</i></p>	<p><b>S20.C.02</b> Classification of topsoils on national, European and international levels</p> <p><i>Maike Bosold</i> <i>(Vechta, Germany)</i></p>	<p><b>S27.C.02</b> Modeling soil degradation effect on long-term food security in China</p> <p><i>Liming Ye</i> <i>(Gent, Belgium)</i></p>
<p><b>S01.C.03</b> Rapid vertical changes of soil organic matter composition under juvenile Beech trees - a lysimeter study</p> <p><i>Carsten Mueller</i> <i>(Freising, Germany)</i></p>	<p><b>S28.C.03</b> Recovery and retranslocation of 15N-urea in a drained minerotrophic peatland 13 years after application</p> <p><i>Scott Chang</i> <i>(Edmonton, Canada)</i></p>	<p><b>S08.C.03</b> Bacterial spatial characteristics at the microscale in soil</p> <p><i>Genevieve Grundmann</i> <i>(Villeurbanne, France)</i></p>	<p><b>S20.C.03</b> Determination of soil condition using electromagnetic sensors array</p> <p><i>Adriana Savin</i> <i>(Iasi, Romania)</i></p>	<p><b>S27.C.03</b> Spatial analysis and modeling for mapping environmental and social land vulnerability in México</p> <p><i>Daniel Lopez</i> <i>(Mexico, Mexico)</i></p>
<p><b>S01.C.04</b> Does water stress affect composition and stabilization of SON? - A 15N labelling phytotron experiment</p> <p><i>Pascale Naumann</i> <i>(Freising, Germany)</i></p>	<p><b>S28.C.04</b> Conventional versus sustainable fertilization: adaptation for climate change</p> <p><i>Dalia Feiziene</i> <i>(Dotnuva, Lithuania)</i></p>	<p><b>S08.C.04</b> Modelling the interactions between soil structure and microbial activity</p> <p><i>Patricia Garnier</i> <i>(Thiverval Grignon, France)</i></p>	<p><b>S20.C.04</b> The Khajeh Research Station Soils: Morphology, Mineralogy &amp; Classification</p> <p><i>Ali Asghar Jafarzadeh</i> <i>(Tabriz, Iran)</i></p>	<p><b>S27.C.04</b> Human health risk assessment in an urban park - Planning issues</p> <p><i>Laura Poggio</i> <i>(Ispra, Italy)</i></p>

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## Symposia – Monday, August 25, 2008 – Block C (16:30 – 18:00)

HS 6	HS 7	HS 17	HS 14A	Böcklsaal
<p><b>S06.C</b> <b>Measurements in S&amp;W</b></p> <p>Chair: <i>Jonathan Holland, Wagga Wagga Wagga Wagga</i></p>	<p><b>S11.C</b> <b>Contaminants - accumulation, bioavailability, application of materials</b></p> <p>Chair: <i>Rainer Schulin Zürich, Switzerland</i></p>	<p><b>S25.C</b> <b>Environmental reconstruction</b></p> <p>Chair: <i>György Füleky Gödöllő, Hungary</i></p>	<p><b>S23.C</b> <b>Rhizosphere modelling and cutting-edge methodology</b></p> <p>Chair: <i>Philippe Hinsinger Montpellier, France</i></p>	<p><b>S30.C</b> <b>Characterisation of dynamic processes in soils</b></p> <p>Chair: <i>Karin Eusterhues Jena, Germany Victoria Mocanu Bucharest, Romania</i></p>
<p><b>S06.C.01</b> Calibration and evaluation of the soil water content sensors ECH2O EC 5 and TE for the soil moisture sensor network SoilNet</p> <p><i>U. Rosenbaum (Juelich, Germany)</i></p>	<p><b>S11.C.01</b> Soil and Water Contamination in an Agro Industrial Region in Tropical Mexico</p> <p><i>Violette Geissen (Villahermosa, Mexico)</i></p>	<p><b>S25.C.01</b> Multivariate numerical methods for paleoenvironment reconstruction by the example of monocultural kurgan cemetery within steppe Pre-Ural, Russia</p> <p><i>Alexander Justus (Pushchino, Russian Federation)</i></p>	<p><b>S23.C.01</b> Modelling the Rhizosphere: Challenges and Future Perspectives</p> <p><i>Andrea Schnepf (Vienna, Austria)</i></p>	<p><b>S30.C.01</b> Phytolith transport in sandy soil: experiments and modeling</p> <p><i>Olga Fishkis (Stuttgart, Germany)</i></p>
<p><b>S06.C.02</b> Intrinsic hydraulic properties determination of water repellent soils using tension disc infiltrometry</p> <p><i>Axel Lamparter (Hannover, Germany)</i></p>	<p><b>S11.C.02</b> Mine tailings as adsorbent for lead in contaminated soil</p> <p><i>Salla Hartikainen (Helsinki, Finland)</i></p>	<p><b>S25.C.02</b> Investigations of buried soil profiles beneath kurgans: Case study of the Lyukas-mound kurgan</p> <p><i>Attila Barczi (Godollo, Hungary)</i></p>	<p><b>S23.C.02</b> Soil properties and the rhizosphere: Theoretical considerations</p> <p><i>Xavier Raynaud (Paris, France)</i></p>	<p><b>S30.C.02</b> Semi quantitative analysis of clay illuviation in Alfisols of subhumid regions of northern Iran, Golestan</p> <p><i>Farhad Khormali (Gorgan, Iran)</i></p>
<p><b>S06.C.03</b> Characterization of the mobile water fraction in a Beauce loamy soil</p> <p><i>Yves Coquet (Thiverval-Grignon, France)</i></p>	<p><b>S11.C.03</b> Mass balance and distribution of zinc, lead, and cadmium in sludge- amended soils developed on diorite saprolites (Limousin, France)</p> <p><i>Dominique Proust (Poitiers, France)</i></p>	<p><b>S25.C.03</b> Eurasian mountain soils as a paleoarchives of Holocene</p> <p><i>Natalia Kovaleva (Moscow, Russian Federation)</i></p>	<p><b>S23.C.03</b> Non-invasive imaging of root structure and root water uptake</p> <p><i>Sascha Oswald (Leipzig, Germany)</i></p>	<p><b>S30.C.03</b> Using <math>\Delta pH</math> as a geochemical index of illite neoformation in saprolite</p> <p><i>Laurent Caner (Poitiers, France)</i></p>
<p><b>S06.C.04</b> A new method to measure in-situ subsoil drainage flux</p> <p><i>Jonathan Holland (Wagga Wagga, Australia)</i></p>	<p><b>S11.C.04</b> Accumulation of some heavy metals in wheat grown on sludge treated on sandy soil</p> <p><i>Refat Youssef (Egypt, Egypt)</i></p>	<p><b>S25.C.04</b> Modelling the genesis of Luvisols from calcareous loess</p> <p><i>Peter Finke (Gent, Belgium)</i></p>	<p><b>S23.C.04</b> Contribution of root respiration to CO<sub>2</sub> emission from soil in mediterranean grassland: comparison of partitioning methods</p> <p><i>Olga Gavrichkova (Viterbo, Italy)</i></p>	

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## Symposia – Tuesday, August 26, 2008 – Block D (08:30 – 10:30)

HS 8	Festsaal	HS 11	HS 18	HS 13
<p><b>S01.D</b> <b>Soil Organic Matter - Stabilization</b></p> <p>Chair: <i>Bernd Marschner</i> <i>Bochum, Germany</i></p>	<p><b>S28.D</b> <b>Climate, Fertilization and Soil Fertility</b></p> <p>Chair: <i>Milan Mesic</i> <i>Zagreb, Croatia</i> <i>Enrico Thiel</i> <i>Leipzig, Germany</i> <i>Sogol Rasouli</i> <i>Zanjan, Iran</i></p>	<p><b>S08.D</b> <b>Soil microorganisms and environmental change</b></p> <p>Chair: <i>Rainer Joergensen</i> <i>Witzenhausen, Germany</i> <i>Liliane Ruess</i> <i>Darmstadt, Germany</i></p>	<p><b>S16.D</b> <b>Soil indicator sets</b></p> <p>Chair: <i>Sigbert Huber</i> <i>Vienna, Austria</i></p>	<p><b>S03.D</b> <b>Assessing soil erosion</b></p> <p>Chair: <i>Jose Luis Rubio</i> <i>Valencia, Spain</i></p>
<p><b>S01.D.01</b> Decomposition and stabilisation of soluble vs. structural C fractions from plant residues in soils</p> <p><i>Cyril Girardin</i> <i>(Thiverval Grignon, France)</i></p>	<p><b>S28.D.01</b> Impact of climate uncertainties and soil characteristics on rainfed maize productivity in South Bulgaria</p> <p><i>Zornitsa Popova</i> <i>(Sofia, Bulgaria)</i></p>	<p><b>S08.D.01</b> Biogeochemical transformations and response to change of soils in Antarctic dry valleys</p> <p><i>David Hopkins</i> <i>(Dundee, United Kingdom)</i></p>	<p><b>S16.D.KL</b> The Soil Framework Directive: State of play on the debate and the importance of soil information in its implementation</p> <p><i>Nicolaas De Witt</i> <i>(Brussels, Belgium)</i></p>	<p><b>S03.D.KL</b> Challenges for soil erosion modelling across scales and disciplines</p> <p><i>Peter Strauss</i> <i>(Petzenkirchen, Austria)</i></p>
<p><b>S01.D.02</b> Impact of Calcium cations on the formation of coordinative cross-linking in Soil Organic Matter (SOM)</p> <p><i>Daniela Gildemeister</i> <i>(Koblenz, Germany)</i></p>	<p><b>S28.D.02</b> Temperature and moisture effects on N-N<sub>2</sub>O losses from soils by different land use</p> <p><i>Irina Kurganova</i> <i>(Pushchino, Russian Federation)</i></p>	<p><b>S08.D.02</b> Development of soil as a living space: the case of the Damma glacier forefield</p> <p><i>Else Buenemann</i> <i>(Lindau, Switzerland)</i></p>		
<p><b>S01.D.03</b> Estimating the relative importance of stabilisation mechanisms for lignin</p> <p><i>Anett Hofmann</i> <i>(Zürich, Switzerland)</i></p>	<p><b>S28.D.03</b> Irrigation - a prerequisite for sustainable agriculture in Bulgaria</p> <p><i>Ivan Varlev</i> <i>(Sofia, Bulgaria)</i></p>	<p><b>S08.D.03</b> Tree species control nitrification?</p> <p><i>Kasaina Andrianarisoa</i> <i>(Nancy, France)</i></p>	<p><b>S16.D.01</b> The core-set of environmental indicators of the European Environment Agency</p> <p><i>Anna Gentile</i> <i>(Copenhagen, Denmark)</i></p>	<p><b>S03.D.01</b> Assessing soil erosion in Mediterranean karst landscapes of Lebanon using remote sensing and GIS</p> <p><i>Rania Bou Kheir</i> <i>(Beirut, Lebanon)</i></p>
<p><b>S01.D.04</b> Priming effect of stable soil organic matter pools: a test of two contradictory hypotheses.</p> <p><i>Bertrand Guenet</i> <i>(Paris, France)</i></p>	<p><b>S28.D.04</b> Cover crops as a nitrogen contamination control system in olive groves</p> <p><i>Emilio González Sánc</i> <i>(Córdoba, Spain)</i></p>	<p><b>S08.D.04</b> N-dynamic and microbial community structure depending on vegetation patterns in agricultural soils</p> <p><i>Ute Hamer</i> <i>(Tharandt, Germany)</i></p>	<p><b>S16.D.02</b> Indicators for soil monitoring in Europe</p> <p><i>Robert Jones</i> <i>(Cranfield, United Kingdom)</i></p>	<p><b>S03.D.02</b> Quantitative analysis of soil erosion and sediment yield of the Alaki Chay basin to optimal management it (Iran-Azerbaijan)</p> <p><i>Mousa Abedini</i> <i>(Ardabil, Iran)</i></p>
<p><b>S01.D.05</b> "Black nitrogen" - an important fraction of the stable soil organic matter pool</p> <p><i>Heike Knicker</i> <i>(Freising-Weihenstephan, Germany)</i></p>	<p><b>S28.D.05</b> The fate of N, P and ethoprophos in sandy loam soil under red pepper cultivation as affected by different surface management practices</p> <p><i>Kyung-Hwa Han</i> <i>(Suwon, Republic of Korea)</i></p>	<p><b>S08.D.05</b> Effects of organic and conventional farming practices on biological soil quality parameters: Evolution during the experimental period of the long-term DOK field trial</p> <p><i>Hans-Rudolf Oberholzer</i> <i>(Zürich, Switzerland)</i></p>	<p><b>S16.D.03</b> Environmental Indicators - a German Approach</p> <p><i>Frank Glante</i> <i>(Dessau, Germany)</i></p>	<p><b>S03.D.03</b> Uncertainty assessment of suspended sediment estimates from sediment rating curves in a small mountain catchment in the Southern Pyrenees, Spain</p> <p><i>Gusman Catari</i> <i>(Barcelona, Spain)</i></p>
<p><b>S01.D.06</b> Multi-scale study of the evolution of organic matter during the podzolisation of laterites in the upper Amazon basin</p> <p><i>Marion Bardy</i> <i>(Paris, France)</i></p>	<p><b>S28.D.06</b> Relative efficiency of nitrate-N and ammonium-N in the nutrition of young corn plants</p> <p><i>Abdel Khalek Selim</i> <i>(Cairo, Egypt)</i></p>	<p><b>S08.D.06</b> Seasonal dynamics of microbial communities in two alpine soils: a molecular approach</p> <p><i>Roberto Geremia</i> <i>(Grenoble, France)</i></p>	<p><b>S16.D.04</b> Proposal for a Soil Indicator Set in Austria</p> <p><i>Sigbert Huber</i> <i>(Vienna, Austria)</i></p>	<p><b>S03.D.04</b> Soil water and wind erosion estimation by using the test areas, GIS land use and soil map</p> <p><i>Tiina Köster</i> <i>(Saku, Estonia)</i></p>

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## Symposia – Tuesday, August 26, 2008 – Block D (08:30 – 10:30)

HS 6	HS 7	HS 17	HS 14A	Böcklsaal
<p><b>S19.D</b> <b>Andosols and Soil Mineralogy</b></p> <p>Chair: <i>Tamas Szegi</i> <i>Gödöllő, Hungary</i> <i>Peter Schad</i> <i>Freising, Germany</i></p>	<p><b>S11.D</b> <b>Contaminants - accumulation, bioavailability, application of materials (cont'd) / Phytoremediation</b></p> <p>Chair: <i>Rainer Schulin</i> <i>Zürich, Switzerland</i> <i>Gerhard Soja</i> <i>Seibersdorf, Austria</i></p>	<p><b>S13.D</b> <b>The nano scales</b></p> <p>Chair: <i>Martin Gerzabek</i> <i>Vienna, Austria</i></p>	<p><b>S21A.D</b> <b>Society's demands for and perception of soil conservation</b></p> <p>Chair: <i>Silvia Tobias</i> <i>Birmensdorf, Switzerland</i> <i>Katharina Helming</i> <i>Müncheberg, Germany</i></p>	<p><b>S26.D</b> <b>Methods and Approaches of Pedometrics</b></p> <p>Chair: <i>Endre Dobos</i> <i>Miskolc, Hungary</i></p>
<p><b>S19.D.KL</b> Soil forming processes, soil functioning and soil classification - the example of allophanic and non-allophanic Andosols</p> <p><i>Reinhold Jahn</i> <i>(Halle (Saale), Germany)</i></p>	<p><b>S11.D.01</b> Binding of organochlorine pesticides in agricultural soils and a phytoavailability assessment</p> <p><i>Isabel Hilber</i> <i>(Frick, Switzerland)</i></p> <p><b>S11.D.02</b> Growing of Crops on Contaminated Soils</p> <p><i>Ivica Kusic</i> <i>(Zagreb, Croatia)</i></p>	<p><b>S13.D.KL</b> From Atom to Pedon: Linking Processes to Phenomena and Function</p> <p><i>Kai Totsche</i> <i>(Jena, Germany)</i></p>	<p><b>S21A.D.KL</b> The role of policies in soil protection and conservation</p> <p><i>Tomas Ratering</i> <i>(Sevilla, Spain)</i></p>	<p><b>S26.D.KL</b> Pedometrics, some applications and preoccupations</p> <p><i>Murray Lark</i> <i>(Hertfordshire, United Kingdom)</i></p>
<p><b>S19.D.01</b> Fractal structure in volcanic soils</p> <p><i>Thierry Woinier</i> <i>(Montpellier, France)</i></p>	<p><b>S11.D.03</b> Comparing Kd, repetitive extractions and DGT as means of assessing heavy metal bioavailability</p> <p><i>Florian Wittstock</i> <i>(Seibersdorf, Austria)</i></p>	<p><b>S13.D.01</b> Fate of pesticides in soil porosity using Lattice Boltzmann and X-ray computed tomography</p> <p><i>Valérie Pot</i> <i>(Thiverval-Grignon, France)</i></p>	<p><b>S21A.D.01</b> Appreciation of soil by Dutch society</p> <p><i>Aaldrik Tiktak</i> <i>(Bilthoven, Netherlands)</i></p>	<p><b>S26.D.01</b> Integrating auxiliary data and expert knowledge: an object-based approach for fuzzy soil class prediction</p> <p><i>Markus Möller</i> <i>(Halle (Saale), Germany)</i></p>
<p><b>S19.D.02</b> Formation and genesis of volcanic ash soils in the Matese Mountains of Southern Italy</p> <p><i>Claudio Massimo Colombo</i> <i>(Campobasso, Italy)</i></p>	<p><b>S11.D.04</b> Simulation of the pytoextraction process by repeated extraction of soil with neutral salt solution and determination of resupply processes</p> <p><i>Sri Wahidah Prahastuti</i> <i>(Vienna, Austria)</i></p>	<p><b>S13.D.02</b> Surface properties of hydrous iron oxides: a model study</p> <p><i>Daniel Tunega</i> <i>(Vienna, Austria)</i></p>	<p><b>S21A.D.02</b> Ecosystem services or soil functions? A closer look at the interface between natural and social sciences</p> <p><i>Klaus Glenk</i> <i>(Aberdeen, United Kingdom)</i></p>	<p><b>S26.D.02</b> Multiple Additive Regression Trees as a tool for estimating soil properties. Principles and applications</p> <p><i>Manuel Martin</i> <i>(Olivet, France)</i></p>
<p><b>S19.D.03</b> Mineralogical and geochemical changes associated with the loss of vertic properties in the upper horizons of a Vertisol</p> <p><i>Eva Lacarce</i> <i>(Olivet, France)</i></p>	<p><b>S11.D.05</b> Minimizing the environmental risks of Lettuce cultivated in heavy metals affected Soils</p> <p><i>Alaa El-Din Zaghoul</i> <i>(Cairo, Egypt)</i></p>	<p><b>S13.D.03</b> Estimation of heavy metal sorption in German soils using artificial neural networks</p> <p><i>Ihuaku Anagu</i> <i>(Stuttgart, Germany)</i></p>	<p><b>S21A.D.03</b> Using the AMOEBA approach for effective soil conservation communication and information towards farmers in Belgium</p> <p><i>Erwin Wauters</i> <i>(Merebeke, Belgium)</i></p>	<p><b>S26.D.03</b> Topsoil organic carbon content in relation to edaphic and anthropogenic site variables in Rwanda</p> <p><i>Ann Verdoodt</i> <i>(Gent, Belgium)</i></p>
<p><b>S19.D.04</b> Silicon isotopic fractionation by Si sorption onto iron oxides: evidence from synthesized oxides and basaltic ash soils</p> <p><i>Sophie Opfergelt</i> <i>(Louvain-la-Neuve, Belgium)</i></p>	<p><b>S11.D.06</b> Bioremediation and phytoremediation of copper and herbicides coming from vineyard soil</p> <p><i>David Huguenot</i> <i>(Colmar, France)</i></p>	<p><b>S13.D.04</b> The role of hydrogen bonds and cation-bridges on the thermodynamic stability of humic acids: modeling study</p> <p><i>Adelia Aquino</i> <i>(Vienna, Austria)</i></p>	<p><b>S21A.D.04</b> Heritage soils in Flanders: towards a conservation strategy</p> <p><i>Karen Vancampenhout</i> <i>(Leuven, Belgium)</i></p>	<p><b>S26.D.04</b> Enhanced soil phosphorus mapping with common secondary information</p> <p><i>Michael Schirrmann</i> <i>(Potsdam, Germany)</i></p>

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## Symposia – Tuesday, August 26, 2008 – Block E (11:00 – 12:30)

HS 8	Festsaal	HS 11	HS 18	HS 13
<p><b>S01.E</b> <b>Soil Organic Matter - Properties</b></p> <p>Chair: <i>Heike Knicker</i> <i>Freising, Germany</i></p>	<p><b>S28.E</b> <b>Chemical and Biological Soil Fertility</b></p> <p>Chair: <i>Rok Mihelic</i> <i>Ljubljana, Slovenia</i> <i>Marta Alfaro</i> <i>Psorno, Chile</i> <i>Irina Kurganova</i> <i>Pushchino, Russian Federation</i></p>	<p><b>S08.E</b> <b>Soil biota and soil functions</b></p> <p>Chair: <i>Paolo Nannipieri</i> <i>Firenze, Italy</i> <i>David Hopkins</i> <i>Dundee, United Kingdom</i></p>	<p><b>S16.E</b> <b>Indicators for specific soil threats</b></p> <p>Chair: <i>Jens Utermann</i> <i>Hannover, Germany</i></p>	<p><b>S03.E</b> <b>Modelling soil erosion</b></p> <p>Chair: <i>Peter Laszlo</i> <i>Budapest, Hungary</i></p>
<p><b>S01.E.01</b> Characterisation of antioxidants in soil organic matter</p> <p><i>David Rimmer</i> <i>(Newcastle upon Tyne, United Kingdom)</i></p>	<p><b>S28.E.01</b> Effects of bulking agent on nitrogen availability of sewage sludge composts: influence of measurement scale for N availability</p> <p><i>Jeremy Doublet</i> <i>(Thiverval Grignon, France)</i></p>	<p><b>S08.E.01</b> Metaproteomics: a new approach for studying functional microbial ecology</p> <p><i>Pierre Maron</i> <i>(Dijon, France)</i></p>	<p><b>S16.E.01</b> The complex indicators reflecting soil functioning activity</p> <p><i>Raimo Kölli</i> <i>(Tartu, Estonia)</i></p>	<p><b>S03.E.01</b> Soil Erosion Survey for Saxony using the EROSION-3D Simulation Model</p> <p><i>Marcus Schindewolf</i> <i>(Freiberg, Germany)</i></p>
<p><b>S01.E.02</b> Separation of free particulate organic matter from bulk soil by electrostatic attraction</p> <p><i>Michael Kaiser</i> <i>(Müncheberg, Germany)</i></p>	<p><b>S28.E.02</b> Evaluation of crop responses to organomineral fertilisers in the UK and measurement of nitrogen availability in controlled laboratory conditions</p> <p><i>Diogenes Antille</i> <i>(Bedfordshire, United Kingdom)</i></p>	<p><b>S08.E.02</b> Iron reducing bacterial activities and communities in paddy soils: impact of salinity and of organic matter</p> <p><i>Affi Bongoua Devisme</i> <i>(Vandoeuvre les nancy, France)</i></p>	<p><b>S16.E.02</b> Indicators and Thresholds for Desertification, Soil Quality, and Remediation - INDEX</p> <p><i>Max Kuderna</i> <i>(Vienna, Austria)</i></p>	<p><b>S03.E.02</b> Modelling winter cover crop management impact on runoff and erosion in a continuous maize cropping system</p> <p><i>Eric Laloy</i> <i>(Louvain-la-Neuve, Belgium)</i></p>
<p><b>S01.E.03</b> Elucidating the reaction of sulfadiazine with soil humic acid with <sup>15</sup>N-CPMAS-NMR spectroscopy</p> <p><i>Anne Berns</i> <i>(Jülich, Germany)</i></p>	<p><b>S28.E.03</b> Estimation of nitrogen mineralization of forest soil by temperature, nitrogen content, and soil type, and its application in Japan</p> <p><i>Keizo Hirai</i> <i>(Morioka, Iwate, Japan)</i></p>	<p><b>S08.E.03</b> How alternative agricultural practices affect the soil biota and soil function - the case of the denitrification process</p> <p><i>Jean-Luc Chotte</i> <i>(Montpellier, France)</i></p>	<p><b>S16.E.03</b> How to monitor decline in soil biodiversity across Europe?</p> <p><i>Rachel Creamer</i> <i>(Cranfield, United Kingdom)</i></p>	<p><b>S03.E.03</b> Estimation of erosion and sediment rates using E.P.M. method (case study: Veladareh Basin, Ardabil, Iran)</p> <p><i>Aghil Madadi</i> <i>(Ardabil, Iran)</i></p>
<p><b>S01.E.04</b> Investigation of the effects of soil organic matter on water repellency by atomic force microscopy</p> <p><i>Shuying Cheng</i> <i>(Swansea, United Kingdom)</i></p>	<p><b>S28.E.04</b> Long-term projections of chemical soil fertility of grassland soils in Switzerland</p> <p><i>Armin Keller</i> <i>(Zürich, Switzerland)</i></p>	<p><b>S08.E.04</b> Denitrifying activity and fungal growth in the fresh cast of <i>Aporrectodea caliginosa</i></p> <p><i>Alexander Kurakov</i> <i>(Moscow, Russian Federation)</i></p>	<p><b>S16.E.04</b> An ecosystem-services based approach to selecting biological indicators of soil quality for national-scale soil monitoring</p> <p><i>Helaina Black</i> <i>(Aberdeen, United Kingdom)</i></p>	<p><b>S03.E.04</b> Quantitative modeling of the impact of landscape structure on soil morphogenetic processes in a complex agricultural landscape</p> <p><i>Stéphane Follain</i> <i>(Montpellier, France)</i></p>

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## Symposia – Tuesday, August 26, 2008 – Block E (11:00 – 12:30)

HS 6	HS 7	HS 17	HS 14A	Böcklsaal
<b>S19.E</b> <b>Soil Stratification and Sediments</b>  Chair: <i>Peter Schad</i> <i>Freising, Germany</i> <i>Tamas Szegi</i> <i>Gödöllő, Hungary</i>	<b>S11.E</b> <b>Phytoremediation (cont'd)</b>  Chair: <i>Gerhard Soja</i> <i>Seibersdorf, Austria</i>	<b>S13.E</b> <b>Metal behaviour</b>  Chair: <i>Alessandro Piccolo</i> <i>Portici, Italy</i>	<b>S21A.E</b> <b>Society's demands for and perception of soil conservation</b>  Chair: <i>Silvia Tobias</i> <i>Birmensdorf, Switzerland</i> <i>Katharina Helming</i> <i>Müncheberg, Germany</i>	<b>S26.E</b> <b>DEM/DTM Exploitation in Digital Soil Mapping</b>  Chair: <i>Murray Lark</i> <i>Hertfordshire, United Kingdom</i>
<b>S19.E.01</b> Soil forming processes and related morphological changes during 11,000 years of soil development in marine sediments of S-Norway  <i>Daniela Sauer</i> <i>(Stuttgart, Germany)</i>	<b>S11.E.01</b> Variability of edaphic conditions in metal-contaminated sites at multiple scales. A temperate and a tropical situations.  <i>Gilles Colinet</i> <i>(Gembloux, Belgium)</i>	<b>S13.E.01</b> The three-dimensional structure of soil organic matter  <i>Gabriele Schaumann</i> <i>(Koblenz, Germany)</i>	<b>S21A.E.01</b> Repeat photography to analyse the effects of 30 years of land rehabilitation in the Ethiopian highlands  <i>Jozef Deckers</i> <i>(Leuven, Belgium)</i>	<b>S26.E.01</b> DEM quality indicators for the derivation of geomorphological parameters  <i>Laura Poggio</i> <i>(Ispra, Italy)</i>
<b>S19.E.02</b> Role of Geological Factors on Soil Forming and Morphology in Western Latvia Coastal Plains  <i>Raimonds Kasparinskis</i> <i>(Riga, Latvia)</i>	<b>S11.E.02</b> Remediation of total petroleum hydrocarbons (TPHS) in a long-term contaminated soil using phytostimulation technique  <i>Aliasghar Besalatpour</i> <i>(Isfahan, Iran)</i>	<b>S13.E.02</b> Effect of soil moisture status on sorption processes of xenobiotics in soils  <i>Tatjana Schneckenburger</i> <i>(Trier, Germany)</i>	<b>S21A.E.02</b> Landscape ecological factors influencing the spread of bubonic plague in Lushoto, Tanzania  <i>Simon Neerinckx</i> <i>(Antwerpen, Belgium)</i>	<b>S26.E.02</b> Digital terrain analysis in an approach to stratify geological mapping units and soil data as a basis for a medium-scale soil map of Germany  <i>Jan Willer</i> <i>(Hannover, Germany)</i>
<b>S19.E.03</b> Geochemical soil zonality on loess in Danube Lowland (SW Slovakia)  <i>Ján Čurlík</i> <i>(Bratislava, Slovakia)</i>	<b>S11.E.03</b> Phytomanagement of metal-contaminated agricultural land using crop species  <i>Erika Fässler</i> <i>(Zürich, Switzerland)</i>	<b>S13.E.03</b> Influence of soil properties on solute and extractable Trace Metal in French forest soils  <i>Laure Gandois</i> <i>(Toulouse, France)</i>	<b>S21A.E.03</b> A review of policies and the regulatory environment concerning soil conservation in the EU  <i>Johannes Schuler</i> <i>(Müncheberg, Germany)</i>	<b>S26.E.03</b> Soil-hydrological runoff processes - a medium scale digital mapping approach  <i>Thorsten Behrens</i> <i>(Tübingen, Germany)</i>
	<b>S11.E.04</b> Remediation of soils polluted with heavy metals by using of biosolid and supported zeolite  <i>Corneliu Bogatu</i> <i>(Timisoara, Romania)</i>		<b>S21A.E.04</b> Adapting policy measures to encourage the adoption of soil conservation practices  <i>Nina Hagemann</i> <i>(Berlin, Germany)</i>	<b>S26.E.04</b> Prediction of groundwater levels and amplitudes in typical soil landscapes (low lands) of the Soil Map of Germany at scale 1:200,000 with Digital Soil Mapping

## Symposia – Tuesday, August 26, 2008 – Block F (14:00 – 16:00)

HS 8	Festsaal	HS 11	HS 18	HS 13
<p><b>S01.F</b> <b>Soil Organic Matter - Properties</b></p> <p>Chair: <i>Heike Knicker</i> <i>Freising, Germany</i></p>	<p><b>S28.F</b> <b>Nutrients, Soils and Environment</b></p> <p>Chair: <i>Tamás Németh</i> <i>Budapest, Hungary</i> <i>Scott Chang</i> <i>Edmonton, AB, Canada</i> <i>Kyung-Hwa Han</i> <i>Suwon, Republic of Korea</i></p>	<p><b>S08.F</b> <b>Ecological engineering by soil fauna</b></p> <p>Chair: <i>Violette Geissen</i> <i>Villahermosa, Mexico</i> <i>Bryan Griffiths</i> <i>Wexford, Ireland</i></p>	<p><b>S16.F</b> <b>New approaches for soil indicators</b></p> <p>Chair: <i>Robert Jones</i> <i>Cranfield, United Kingdom</i></p>	<p><b>S03.F</b> <b>Quantitative assessment of soil erosion</b></p> <p>Chair: <i>Lilian Oygarden</i> <i>Oslo, Norway</i></p>
<p><b>S01.F.01</b> In situ investigation of SOM coatings on soil particles using fluorescence imaging</p> <p><i>Julia Bayer</i> <i>(Swansea, United Kingdom)</i></p>	<p><b>S28.F.01</b> Soil quality in a pasture after application of organic fertilizers or mineral for 7 years</p> <p><i>Ignacio Mariscal-Sancho</i> <i>(Madrid, Spain)</i></p>	<p><b>S08.F.01</b> Endogeic engineering: Soil ecological processes related to endogeic earthworms - A summary of lab incubations</p> <p><i>Martin Potthoff</i> <i>(Göttingen, Germany)</i></p>	<p><b>S16.F.01</b> Soil quality indicators and risk assessment methodologies for subsoil compaction</p> <p><i>Jan Van den Akker</i> <i>(Wageningen, Netherlands)</i></p>	<p><b>S03.F.01</b> Physico-chemically induced erosion: Case study at the Lago di Vico (Latium)</p> <p><i>Friederike Lang</i> <i>(Berlin, Germany)</i></p>
<p><b>S01.F.02</b> The nature, distribution and significance of organic carbon within structurally intact soils</p> <p><i>Katie Smith</i> <i>(Stirling, United Kingdom)</i></p>	<p><b>S28.F.02</b> Changes in Chemical Soil Properties after 11 Years of Different N and Regular P and K Fertilization</p> <p><i>Milan Mesic</i> <i>(Zagreb, Croatia)</i></p>	<p><b>S08.F.02</b> Functional impact of earthworm biostructures on soil bacterial community: A field approach in agricultural soils</p> <p><i>Denis Piron</i> <i>(Rennes, France)</i></p>	<p><b>S16.F.02</b> Using expert knowledge to assess soil compaction</p> <p><i>Silvia Tobias</i> <i>(Birmensdorf, Switzerland)</i></p>	<p><b>S03.F.02</b> Mapping occurrence of soil water erosion in Sicily by a logistic and multivariate geostatistical analysis</p> <p><i>Maria Fantappiè</i> <i>(Firenze, Italy)</i></p>
<p><b>S01.F.03</b> Understanding soil structure dynamics during organic matter decomposition: techniques for mapping C distributions onto 3-D soil structure</p> <p><i>Clare Wilson</i> <i>(Stirling, United Kingdom)</i></p>	<p><b>S28.F.03</b> In-situ measurement of plant available nutrients in tropical savanna and forest soils - correlations with plant functional traits</p> <p><i>Franziska Schrodtt</i> <i>(Leeds, United Kingdom)</i></p>	<p><b>S08.F.03</b> Root, mycorrhiza, and earthworm interactions: their combined effects on plant biomass, nutrition and soil structure</p> <p><i>Roxane Milleret</i> <i>(Neuchâtel, Switzerland)</i></p>	<p><b>S16.F.03</b> Putting together measures of soil physical quality</p> <p><i>Blair McKenzie</i> <i>(Dundee, United Kingdom)</i></p>	<p><b>S03.F.03</b> Sediment and nutrient loss from five Irish tillage soils at two rainfall intensities</p> <p><i>John Regan</i> <i>(Wexford, Ireland)</i></p>
<p><b>S01.F.04</b> Drying state and wettability of soil samples assessed by DRIFT spectroscopy</p> <p><i>Dörte Diehl</i> <i>(Koblenz, Germany)</i></p>	<p><b>S28.F.04</b> Effect of Continuous Fertilization on Soil Health in Rice Paddy</p> <p><i>Pil Joo Kim</i> <i>(Jinju, Republic of Korea)</i></p>	<p><b>S08.F.04</b> Impact of root growth, fungi and earthworms on soil physical properties as assessed by shrinkage analysis</p> <p><i>Pascal Boivin</i> <i>(Jussy, Switzerland)</i></p>	<p><b>S16.F.04</b> Assessment and monitoring of soil conditions using indexes based on near infrared reflectance (NIR) spectroscopy</p> <p><i>Lauric Cécillon</i> <i>(Grenoble, France)</i></p>	<p><b>S03.F.04</b> Monitoring of Water Erosion in Croatia - Fifteen Years of Experience</p> <p><i>Ivica Kisić</i> <i>(Zagreb, Croatia)</i></p>
<p><b>S01.F.05</b> Use of physical fractionation and pyrolysis-GC/MS to study compost organic matter incorporation into a loamy soil organic matter</p> <p><i>Clément Peltre</i> <i>(Thiverval-Grignon, France)</i></p>	<p><b>S28.F.05</b> Soil sulfur - transformations and plant uptake</p> <p><i>Kristin Boye</i> <i>(Uppsala, Sweden)</i></p>	<p><b>S08.F.05</b> Ecological forest management, soil faunal communities and soil processes: a case study in the Black Forest (Germany)</p> <p><i>Matthieu Chauvat</i> <i>(Mont Saint Aignan, France)</i></p>	<p><b>S16.F.05</b> Novel approaches for assessing properties and limitations of soils for cropping and grazing</p> <p><i>Lothar Mueller</i> <i>(Muencheberg, Germany)</i></p>	<p><b>S03.F.05</b> The evaluation of aggregate size distribution and associated phosphorus as a function of landscape position along field tramlines</p> <p><i>Ghasem Rahimi</i> <i>(Hamedan, Iran)</i></p>
<p><b>S01.F.06</b> Pyrolysis-GC/MS characterization regarding the influence of climate and vegetation on the composition of soil organic matter under natural ecosystems</p> <p><i>Karen Vancampenhout</i> <i>(Leuven, Belgium)</i></p>		<p><b>S08.F.06</b> Pedotransfer functions for soil biodiversity</p> <p><i>Ulfert Graefe</i> <i>(Hamburg, Germany)</i></p>	<p><b>S16.F.06</b> Organic nitrogen as a potential indicator of livestock grazing impacts on Mediterranean soil quality</p> <p><i>Fotini Stamati</i> <i>(Chania, Greece)</i></p>	<p><b>S03.F.06</b> Spatial variability on runoff and soil mobilization in vineyards: comparison between plots with different disturbance degree</p> <p><i>María Concepción Ramos</i> <i>(Lleida, Spain)</i></p>

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## Symposia – Tuesday, August 26, 2008 – Block F (14:00 – 16:00)

HS 6	HS 7	HS 17	HS 14A	Böcklsaal
<p><b>S19.F</b> <b>Soils of mountainous and cold regions</b></p> <p>Chair: <i>Tamas Szegi</i> <i>Gödöllő, Hungary</i> <i>Peter Schad</i> <i>Freising, Germany</i></p>	<p><b>S11.F</b> <b>Remediation and Natural Attenuation</b></p> <p>Chair: <i>Volker Franzius</i> <i>Berlin, Germany</i></p>	<p><b>S13.F</b> <b>Retention and soil development</b></p> <p>Chair: <i>Martin Gerzabek</i> <i>Vienna, Austria</i></p>	<p><b>S21B.F</b> <b>Local and Regional Case Studies</b></p> <p>Chair: <i>Hans-Rudolf Bork</i> <i>Kiel, Germany</i></p>	<p><b>S26.F</b> <b>Geophysics and Other Auxiliary Data Exploitation in DSM</b></p> <p>Chair: <i>Thorsten Behrens</i> <i>Tübingen, Germany</i></p>
<p><b>S19.F.01</b> The role of climate and vegetation in weathering and clay mineral formation in Alpine soils</p> <p><i>Markus Egli</i> <i>(Zürich, Switzerland)</i></p>	<p><b>S11.F.01</b> Remediation of PAH-polluted soils by in-situ-injection of vegetable oil</p> <p><i>Gerhard Soja</i> <i>(Seibersdorf, Austria)</i></p>	<p><b>S13.F.01</b> The impact of soil organic matter loss on the soil's filtering capacity of the herbicide 2,4-D</p> <p><i>Markus Deurer</i> <i>(Palmerston North, New Zealand)</i></p>	<p><b>S21B.F.KL</b> Soils and Societies in History: Bridging Approaches, Pooling Knowledge</p> <p><i>Verena Winiwarter</i> <i>(Klagenfurt, Austria)</i></p>	<p><b>S26.F.01</b> Digital mapping of soil layers and substrates - a machine learning approach based on GPR data</p> <p><i>Karsten Schmidt</i> <i>(Tübingen, Germany)</i></p>
<p><b>S19.F.02</b> Geochemical distinction of subalpine soils based on Al, Fe, and REE</p> <p><i>Brice Mourier</i> <i>(Le Bourget du lac, France)</i></p>	<p><b>S11.F.02</b> The possible use of soluble humic substances for remediation of heavy metal polluted soils</p> <p><i>Ole Borggaard</i> <i>(Frederiksberg, Denmark)</i></p>	<p><b>S13.F.02</b> PAH leaching at the laboratory scale - Comparison between saturated and unsaturated flow</p> <p><i>Julien Michel</i> <i>(Nancy, France)</i></p>		<p><b>S26.F.02</b> Single line Ground Penetrating Radar soil survey along a representative transect in the soilscape of Buedingen (Hesse/Germany)</p> <p><i>Christian Albrecht</i> <i>(Giessen, Germany)</i></p>
<p><b>S19.F.03</b> Sediment redistribution as a key to understand soil formation in central Bhutan.</p> <p><i>Thomas Caspari</i> <i>(Freiburg, Germany)</i></p>	<p><b>S11.F.03</b> The effect of biotic and abiotic factors on Pb, Zn and Cd accessibility and mobility in soil after remediation with EDTA soil leaching</p> <p><i>Metka Udovic</i> <i>(Ljubljana, Slovenia)</i></p>	<p><b>S13.F.03</b> Influence of progressing pedogenesis on the buffer function of floodplain soils</p> <p><i>Georg Lair</i> <i>(Vienna, Austria)</i></p>	<p><b>S21B.F.01</b> The sand land soil system and society</p> <p><i>Ramez Mahjoory</i> <i>(East Lansing, United States)</i></p>	<p><b>S26.F.03</b> Gamma-ray spectrometry; local or global calibration?</p> <p><i>Fenny van Egmond</i> <i>(Groningen, Netherlands)</i></p>
<p><b>S19.F.04</b> Initial soil development in the foreland of a retreating Werenskjöld Glacier, SW Spitsbergen</p> <p><i>Cezary Kabala</i> <i>(Wroclaw, Poland)</i></p>	<p><b>S11.F.04</b> Soil redox changes enhance metal fixation into Fe (hydr)oxides</p> <p><i>Marco Contin</i> <i>(Udine, Italy)</i></p>	<p><b>S13.F.04</b> Leaching of glyphosate on partly sealed urban areas</p> <p><i>Eva Klingelmann</i> <i>(Berlin, Germany)</i></p>	<p><b>S21B.F.02</b> Soil conservation in the Windward Islands, Eastern Caribbean, in the 1930s and 1940s</p> <p><i>Lawrence Grossman</i> <i>(Blacksburg, United States)</i></p>	<p><b>S26.F.04</b> Use of electrical resistivity prospecting to characterize soil spatial variability links to actual and past hedgerows networks landscape</p> <p><i>Didier Michot</i> <i>(Rennes, France)</i></p>
<p><b>S19.F.05</b> The peculiarities of the automorphic loamy soils of the east european tundra</p> <p><i>Alexander Pastukhov</i> <i>(Syktyvkar, Russian Federation)</i></p>	<p><b>S11.F.05</b> Monitored Natural Attenuation of nutrients at river basin scale - the case of Evrotas river basin</p> <p><i>Ourania Tzoraki</i> <i>(Chania, Greece)</i></p>	<p><b>S13.F.05</b> Transport of Reactive Anions and Cations in a Volcanic Soil: Experiments and Modelling</p> <p><i>Julie Sansoulet</i> <i>(Saint-Denis, la Réunion, France)</i></p>	<p><b>S21B.F.03</b> The "Great Leap Forward" - a soil erosion disaster in Chinese history? Results of a case study on the Chinese Loess Plateau</p> <p><i>Christine Dahlke</i> <i>(Goettingen, Germany)</i></p>	<p><b>S26.F.05</b> Is systematic EMI two dimensional soil survey suitable for vineyard production management? A test on two pedologically-contrasted Mediterranean vineyards</p> <p><i>Guillaume Coulouma</i> <i>(Montpellier, France)</i></p>
	<p><b>S11.F.06</b> An innovative, biologically based in situ remediation procedure for chlorinated solvent-contaminated sites: first steps of establishment in Austria</p> <p><i>Kerstin Scherr</i> <i>(Vienna, Austria)</i></p>	<p><b>S13.F.06</b> Oxidation of anoxic soils and sediments: how can we evaluate the risk of heavy metal release?</p> <p><i>Valérie Cappuyns</i> <i>(Brussels, Belgium)</i></p>	<p><b>S21B.F.04</b> Reclamation history as explaining factor for soil organic matter content in agricultural landscapes</p> <p><i>Nynke Schulp</i> <i>(Wageningen, Netherlands)</i></p>	<p><b>S26.F.06</b> Regionalisation of soil data as basis for the evaluation of natural soil functions</p> <p><i>Markus Tusch</i> <i>(Innsbruck, Austria)</i></p>

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## Symposia – Tuesday, August 26, 2008 – Block G (16:30 – 18:00)

HS 8	Festsaal	HS 11	HS 18	HS 13
<p><b>S01.G</b> <b>Soil Organic Matter - Properties</b></p> <p>Chair: <i>Rienk Smittenberg</i> <i>Zürich, Switzerland</i></p>	<p><b>S28.G</b> <b>Phosphorus and Soil Fertility</b></p> <p>Chair: <i>Diogenes Antille</i> <i>Bedfordshire, United Kingdom</i> <i>Zornitsa Popova</i> <i>Sofia, Bulgaria</i> <i>Dalia Feiziene</i> <i>Dotnuva, Lithuania</i></p>	<p><b>S08.G</b> <b>The nature of microbial biomass</b></p> <p>Chair: <i>Genevieve Grundmann</i> <i>Villeurbanne cedex, France</i> <i>Martin Potthoff</i> <i>Göttingen, Germany</i></p>	<p><b>S16.G</b> <b>Challenges for soil indicator development</b></p> <p>Chair: <i>Sigbert Huber</i> <i>Vienna, Austria</i></p>	<p><b>S03.G</b> <b>Measurements of soil erosion</b></p> <p>Chair: <i>Peter Laszlo</i> <i>Budapest, Hungary</i></p>
<p><b>S01.G.01</b> Can we use benzenepolycarboxylic acids as molecular markers to trace the formation temperature of wood char?</p> <p><i>Maximilian Schneider</i> <i>(Zürich, Switzerland)</i></p>	<p><b>S28.G.01</b> Agronomic potential of P-fertilisers made from sewage sludge ashes - The EU-Project SUSAN</p> <p><i>Judith Schick</i> <i>(Braunschweig, Germany)</i></p>	<p><b>S08.G.01</b> The contribution of fungi and bacteria to the microbial biomass in soil</p> <p><i>Rainer Joergensen</i> <i>(Witzenhausen, Germany)</i></p>	<p><b>S16.G.01</b> Soil indicators for chemical soil pollution in Switzerland - a critical review and proposal for future soil indicators</p> <p><i>Reto Meuli</i> <i>(Zürich, Switzerland)</i></p>	<p><b>S03.G.01</b> Comparing soil erosion and sediment production in two contrasted catchments from 137Cs measurements</p> <p><i>Claude Bernard</i> <i>(Québec, Canada)</i></p>
<p><b>S01.G.02</b> Use of bidirectional reflectance spectroscopy (BRS) to predict organic carbon content in volcanic soils</p> <p><i>Michele Vincenzo Sellitto</i> <i>(Campobasso, Italy)</i></p>	<p><b>S28.G.02</b> Land-use evoked changes in soil phosphorus fractions</p> <p><i>Helena Soinne</i> <i>(Helsinki, Finland)</i></p>	<p><b>S08.G.02</b> Influence of pH-heterogeneity of fertiliser effects on microbial biomass in a long-term field trial of ecological agriculture</p> <p><i>Stefanie Heinze</i> <i>(Witzenhausen, Germany)</i></p>	<p><b>Panel discussion</b> on needs for further indicator development towards optimal soil information</p> <p><i>Sigbert Huber</i> <i>(Vienna, Austria)</i></p>	<p><b>S03.G.02</b> Prediction of the Surface Soil Shear Strength in Semiarid rangeland Using PTFs</p> <p><i>Bijan Khalilmoghadam</i> <i>(Isfahan, Iran)</i></p>
<p><b>S01.G.03</b> How good is <sup>13</sup>C isotope analysis in assessing dynamics of organic compounds in soil? - The example of lignin</p> <p><i>Alexander Heim</i> <i>(Zürich, Switzerland)</i></p>	<p><b>S28.G.03</b> Fertilization effect on phosphorus fractionation accumulation and release in Greek Alfisols</p> <p><i>Marina Bastounopoulou</i> <i>(Athens, Greece)</i></p>	<p><b>S08.G.03</b> Soil microbial community structure, diversity and functionality in integrated livestock-corp production systems compared to continuous cotton</p> <p><i>Veronica Acosta-Martinez</i> <i>(Lubbock, United States)</i></p>		<p><b>S03.G.03</b> Assessment of soil erosion through the use of <sup>137</sup>Cs-method at Mochovce site, Slovakia</p> <p><i>Emil Fulajtar</i> <i>(Bratislava, Slovakia)</i></p>
<p><b>S01.G.04</b> Relationship between carbon dynamics and microbial communities determined by the natural <sup>13</sup>C abundance of SOM and lipid biomarkers</p> <p><i>Thomas Lerch</i> <i>(Thiverval-Grignon, France)</i></p>	<p><b>S28.G.04</b> Soil phosphorus status and turnover in a central-European beech forest ecosystem</p> <p><i>Ulrike Talkner</i> <i>(Göttingen, Germany)</i></p>	<p><b>S08.G.04</b> Microbial-biogeography of France by the use of molecular tools applied to the French soil quality monitoring network (RMQS)</p> <p><i>Lionel Ranjard</i> <i>(Dijon, France)</i></p>		<p><b>S03.G.04</b> Soil detachment under vegetation - kinetic energy of splash erosion under forest as a function of different tree and shrub species</p> <p><i>Thomas Scholten</i> <i>(Tübingen, Germany)</i></p>

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## Symposia – Tuesday, August 26, 2008 – Block G (16:30 – 18:00)

HS 6	HS 7	HS 17	HS 14A	Böcklsaal
<p><b>S19.G</b> <b>Humans as soil forming factor</b></p> <p>Chair: <i>Peter Schad</i> <i>Freising, Germany</i> <i>Tamas Szegi</i> <i>Gödöllő, Hungary</i></p>	<p><b>S11.G</b> <b>Remediation and Natural Attenuation (cont'd)</b></p> <p>Chair: <i>Volker Franzius</i> <i>Berlin, Germany</i></p>	<p><b>S13.G</b> <b>Practical experiences and mitigation</b></p> <p>Chair: <i>Alessandro Piccolo</i> <i>Portici, Italy</i></p>	<p><b>S21B.G</b> <b>Conceptual Issues in Soil History</b></p> <p>Chair: <i>Verena Winiwarter</i> <i>Klagenfurt, Austria</i></p>	<p><b>S26.G</b> <b>Pedometrical Applications</b></p> <p>Chair: <i>Lubos Boruvka</i> <i>Prague, Czech Republic</i></p>
<p><b>S19.G.01</b> Long-term liming effects in Irish soils may have been underestimated</p> <p><i>Thomas Cummins</i> <i>(Dublin, Ireland)</i></p>	<p><b>S11.G.01</b> Soil solution composition as a criterion of soil remediation</p> <p><i>Irina Smirnova</i> <i>(Moscow, Russian Federation)</i></p>	<p><b>S13.G.01</b> Wastewater irrigation affects soils' filtering of atrazine: A laboratory study</p> <p><i>Karin Mueller</i> <i>(Hamilton, New Zealand)</i></p>	<p><b>S21B.G.01</b> European soils: natural vs. anthropogenic entities? - examples from Central Europe</p> <p><i>Stefan Dreibrödt</i> <i>(Kiel, Germany)</i></p>	<p><b>S26.G.01</b> A multi-scale study on organic carbon stock variability in forest soils</p> <p><i>Ingo Schöning</i> <i>(Jena, Germany)</i></p>
<p><b>S19.G.02</b> Hydropedological Implications of Iron-Manganese Nodules in Rice-Growing Ultisols under Different Anthraquic Conditions</p> <p><i>Zueng Chen</i> <i>(Taipei, Taiwan)</i></p>	<p><b>S11.G.02</b> Anaerobic biodegradation of organic pollutants in groundwater: a novel, low-cost in-situ bioremediation approach</p> <p><i>Dragana Todorovic</i> <i>(Tulln, Austria)</i></p>	<p><b>S13.G.02</b> Release of Cd, Pb and Zn from substrates of a former Pb smelter site</p> <p><i>Sylvia Meißner</i> <i>(Jena, Germany)</i></p>	<p><b>S21B.G.02</b> Ecosystem Challenge and Creative Human Response to Soil Salinity: Role in the Rise and Possible Decline of Ancient Mesopotamian Civilization</p> <p><i>Bruce James</i> <i>(College Park, United States)</i></p>	<p><b>S26.G.02</b> Exploring spatial variation of soil organic matter fractions to optimize a subsequent sampling</p> <p><i>Carolyn Cordova</i> <i>(Harpenden, United Kingdom)</i></p>
<p><b>S19.G.03</b> Effect of wheat and ryegrass on recrystallisation rate of pedogenic carbonates</p> <p><i>Martina Gocke</i> <i>(Bayreuth, Germany)</i></p>	<p><b>S11.G.03</b> Effect of Canola Oil addition on the degradation behaviour of polycyclic aromatic hydrocarbons in soil</p> <p><i>Marion Hasinger</i> <i>(Tulln, Austria)</i></p>	<p><b>S13.G.03</b> Modifications of pH-dependent heavy metal solubility through mineral and organic amendments</p> <p><i>Bernd Marschner</i> <i>(Bochum, Germany)</i></p>	<p><b>S21B.G.03</b> Ontological and epistemological considerations on soil - a soil scientist perspective</p> <p><i>Ion Munteanu</i> <i>(Bucharest, Romania)</i></p>	<p><b>S26.G.03</b> Mapping phreatic groundwater dynamics in the Dijle Valley</p> <p><i>Johan Van de Wauw</i> <i>(Ghent, Belgium)</i></p>
<p><b>S19.G.04</b> Formation of carbonate precipitates in a marsh soil of northwest Germany</p> <p><i>Luise Giani</i> <i>(Oldenburg, Germany)</i></p>	<p><b>S11.G.04</b> Effectiveness of CLEAN SOIL system in remediation of heavy metal polluted soils</p> <p><i>Galina Koptsik</i> <i>(Moscow, Russian Federation)</i></p>	<p><b>S13.G.04</b> Influence of pig slurry on sorption and transport of medicinal sulfonamide antibiotics in soil systems</p> <p><i>Marc-Oliver Aust</i> <i>(Rostock, Germany)</i></p>	<p><b>S21B.G.04</b> Inner and Outer Soil... Depth Psychology of Human Soil Relation</p> <p><i>Nikola Patzel</i> <i>(Frick, Switzerland)</i></p>	<p><b>S26.G.04</b> Short-range soil spatial variability structures and soil sampling for change detection</p> <p><i>Rossano Ciampalini</i> <i>(Florence, Italy)</i></p>

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## Symposia – Thursday, August 28, 2008 – Block H (08:30 – 10:30)

HS 8	Festsaal	HS 11	HS 18	HS 13
<p><b>S01.H</b> <b>Soil Organic Matter - Stocks and Stock Changes</b></p> <p>Chair: <i>Michael Schmidt</i> <i>Zürich, Switzerland</i></p>	<p><b>S28.H</b> <b>Potassium, Liming and Wastes</b></p> <p>Chair: <i>Armin Keller</i> <i>Zürich, Switzerland</i> <i>Kristin Boye</i> <i>Uppsala, Sweden</i> <i>Abbas Samadi</i> <i>Urmia, Iran</i></p>	<p><b>S17.H</b> <b>Factors Influencing Land Use</b></p> <p>Chair: <i>Franc Lobnik</i> <i>Ljubljana, Slovenia</i></p>	<p><b>S10.H</b> <b>Soil monitoring general issues</b></p> <p>Chair: <i>Judit Berényi Üveges</i> <i>Budapest, Hungary</i></p>	<p><b>S07.H</b> <b>Soil moisture regimes I</b></p> <p>Chair: <i>Ildefonso Pla-Sentis</i> <i>Lleida, Spain</i></p>
<p><b>S01.H.01</b> Sequestration of organic carbon in soil by chemical technology</p> <p><i>Alessandro Piccolo</i> <i>(Napels, Italy)</i></p>	<p><b>S28.H.01</b> Potassium dynamics and contribution from soil resources in a 30 year grass rotation experiment</p> <p><i>Ingrid Öborn</i> <i>(Uppsala, Sweden)</i></p>	<p><b>S17.H.KL</b> Land Use and Soil Protection in Europe</p> <p><i>Luca Montanarella</i> <i>(Ispra, Italy)</i></p>	<p><b>S10.H.KL</b> Recent advances in soil monitoring and unsolved issues</p> <p><i>Dominique Arrouays</i> <i>(Olivet, France)</i></p>	<p><b>S07.H.KL</b> Soil water - storage potential, accessibility and flux as key functions for land use planning at various scales - do we need a paradigm change?</p> <p><i>Rainer Horn</i> <i>(Kiel, Germany)</i></p>
<p><b>S01.H.02</b> Estimate of changes in carbon balance of Russia, 1990-2005</p> <p><i>Irina Kurganova</i> <i>(Pushchino, Russian Federation)</i></p>	<p><b>S28.H.02</b> Mineralogical speciation of soil potassium - a basis for sustainable management options for grassland soils</p> <p><i>Ylva Andrist-Rangel</i> <i>(Uppsala, Sweden)</i></p>			
<p><b>S01.H.03</b> Composition and turnover of soil organic matter fractions and aggregation in semiarid steppe topsoils as driven by organic matter input</p> <p><i>Markus Steffens</i> <i>(Freising, Germany)</i></p>	<p><b>S28.H.03</b> Comparison of kinetics of non-exchangeable potassium release from profile samples of mineralogically varying benchmark soil series</p> <p><i>Nanak Pasricha</i> <i>(Dundahera, Gurgaon, India)</i></p>	<p><b>S17.H.01</b> Land use and landscape effects on carbon sequestration in cultivated and pasture soils</p> <p><i>Nadia Doaei</i> <i>(Hamedan, Iran)</i></p>	<p><b>S10.H.01</b> Soil monitoring - a basic tool for protection of soils and land use</p> <p><i>Jozef Kobza</i> <i>(Banska Bystrica, Slovakia)</i></p>	<p><b>S07.H.01</b> Modeling the soil moisture regime under Mediterranean conditions</p> <p><i>Ildefonso Pla-Sentis</i> <i>(Lleida, Spain)</i></p>
<p><b>S01.H.04</b> Organic carbon content of forest and agricultural soils in Slovenia</p> <p><i>Milan Kobal</i> <i>(Ljubljana, Slovenia)</i></p>	<p><b>S28.H.04</b> Lime use, requirement and pH values on grassland soils in Ireland based on statistics and soil database results</p> <p><i>Hubert Tunney</i> <i>(Wexford, Ireland)</i></p>	<p><b>S17.H.02</b> Land degradation as affected by deforestation in northern Jordan</p> <p><i>Sa'eb Khresat</i> <i>(Irbid, Jordan)</i></p>	<p><b>S10.H.02</b> Harmonization of Risk Assessment Methodologies for Soil Threats in Europe</p> <p><i>Christy van Beek</i> <i>(Wageningen, Netherlands)</i></p>	<p><b>S07.H.02</b> Pedo-hydrologic indicators evaluation through pedo-hydrographic balance sheet simulation models at hydrographic basin level using georeferential data base</p> <p><i>Elena Luminita Grigore</i> <i>(Bucharest, Romania)</i></p>
<p><b>S01.H.05</b> Early evolution of the soil organic matter pool as measured on a high alpine chronosequence</p> <p><i>Rienk Smittenberg</i> <i>(Zürich, Switzerland)</i></p>	<p><b>S28.H.05</b> A case study of olive oil mill waste water application in corn fields: Soil and groundwater quality assessment</p> <p><i>Daniel Moraetis</i> <i>(Chania, Greece)</i></p>	<p><b>S17.H.03</b> Land suitability and crop distribution in an irrigation district of the Ebro valley (Spain)</p> <p><i>José Martínez-Casasnovas</i> <i>(Lleida, Spain)</i></p>	<p><b>S10.H.03</b> European soil monitoring versus mapping - the importance of scale</p> <p><i>Clemens Reimann</i> <i>(Trondheim, Norway)</i></p>	<p><b>S07.H.03</b> Field scale variability of measured and estimated hydraulic properties: stochastic analysis of hydraulic behaviour sensitivity and investigation on spatial structures of the data</p> <p><i>Piero Manna</i> <i>(Portici (Napoli), Italy)</i></p>
<p><b>S01.H.06</b> Changes in soil carbon contents in long-term experimental grassland plots in Northeast England between the 1980s and 2006</p> <p><i>David Hopkins</i> <i>(Dundee, United Kingdom)</i></p>	<p><b>S28.H.06</b> Response of pasture and vetch-cereal crops to sugar foam waste applications in a mediterranean Palearctic "raña" soil</p> <p><i>Pedro González-Fernández</i> <i>(Córdoba, Spain)</i></p>	<p><b>S17.H.04</b> Factors influencing land use and public perception of land use changes in Slovenia</p> <p><i>Marina Pintar</i> <i>(Ljubljana, Slovenia)</i></p>	<p><b>S10.H.04</b> Correcting temporal instabilities of chemical measurements in long-term forest soil monitoring</p> <p><i>Andreas Papritz</i> <i>(Zürich, Switzerland)</i></p>	<p><b>S07.H.04</b> Relevance of using soil moisture simulation for farming decision support</p> <p><i>André Chanzy</i> <i>(Avignon, France)</i></p>

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## Symposia – Thursday, August 28, 2008 – Block H (08:30 – 10:30)

HS 6	HS 7	HS 17	HS 14A	Böcklsaal
<p><b>S09.H</b> <b>Vegetation - Soil Interactions</b></p> <p>Chair: <i>Klaus Katzensteiner</i> <i>Vienna, Austria</i></p>	<p><b>S02.H</b> <b>Soils and Climate Change</b></p> <p>Chair: <i>Viliam Pichler</i> <i>Zvolen, Slovakia</i></p>	<p><b>S18.H</b> <b>Urban vs Anthropogenic Soils</b></p> <p>Chair: <i>Jaroslava Sobocka</i> <i>Bratislava, Slovakia</i></p>	<p><b>S24.H.</b> <b>Soils and GMOs</b></p> <p>Chair: <i>Angela Sessitsch</i> <i>Seibersdorf, Austria</i></p>	<p><b>S04.H</b> <b>Rheological processes in soils as structured systems</b></p> <p>Chair: <i>Márta Birkás</i> <i>Gödöllő, Hungary</i> <i>Rainer Horn</i> <i>Kiel, Germany</i></p>
<p><b>S09.H.KL</b> Climate - vegetation - soil interactions: Changes in forest soil properties and function in a changing environment</p> <p><i>Helga Van Miegroet</i> <i>(Logan, United States)</i></p>	<p><b>S02.H.KL</b> Do soils change when climate changes ?</p> <p><i>Anthony Dexter</i> <i>(Olivet, France)</i></p>	<p><b>S18.H.KL</b> Services from Soils in Urban Areas</p> <p><i>Wolfgang Burghardt</i> <i>(Essen, Germany)</i></p>	<p><b>S24.H.KL</b> Impact of transgenic potato lines on microbial functions in the rhizosphere</p> <p><i>Michael Schloter</i> <i>(Neuherberg, Germany)</i></p>	<p><b>S04.H.KL</b> Effects of Soil Compaction on Soil Biota and Soil Biological Processes</p> <p><i>Berndt-Michael Wilke</i> <i>(Berlin, Germany)</i></p>
<p><b>S09.H.01</b> Impact of tree species on the release from forest floor of organic and inorganic carbon and nitrogen</p> <p><i>Florence Trum</i> <i>(Louvain-la-Neuve, Belgium)</i></p>	<p><b>S02.H.01</b> Investigating the use of Bayesian Belief Networks to assess the influence of climate change on soil quality</p> <p><i>Rupert Hough</i> <i>(Aberdeen, United Kingdom)</i></p>	<p><b>S18.H.KL</b> Anthropogenic soils, what they are, their properties, behaviour and functionality</p> <p><i>Andreas Lehmann</i> <i>(Stuttgart, Germany)</i></p>	<p><b>S24.H.01</b> Molecular diversity of potato associated bacterial isolates with in vitro antagonistic activity influenced by site, cultivar and genetic modification</p> <p><i>Kornelia Smalla</i> <i>(Braunschweig, Germany)</i></p>	<p><b>S04.H.01</b> Rheological investigations in soil micro mechanics: structuring processes on a micro scale</p> <p><i>Wibke Markgraf</i> <i>(Kiel, Germany)</i></p>
<p><b>S09.H.02</b> Nitrogen mineralization pathways in the humic epipedon along chronosequences of a pure beech and a mixed oak-hornbeam even-high forests</p> <p><i>Jean Trap</i> <i>(Rouen, France)</i></p>	<p><b>S02.H.02</b> Temperature sensitivities of greenhouse gas formation processes</p> <p><i>Sophie Zechmeister-Boltenstern</i> <i>(Vienna, Austria)</i></p>		<p><b>S24.H.02</b> Impact of transgenic potato producing antibacterial substances on plant-associated microbial communities in comparison to effects caused by other parameters</p> <p><i>Angela Sessitsch</i> <i>(Seibersdorf, Austria)</i></p>	<p><b>S04.H.02</b> Elasticity of pre-consolidated soils under monotonic increasing and cyclic loads</p> <p><i>Stephan Peth</i> <i>(Kiel, Germany)</i></p>
<p><b>S09.H.03</b> Decomposition and nutrient loss of bilberry litter under three different dominant tree species</p> <p><i>Tiina Nieminen</i> <i>(Vantaa, Finland)</i></p>	<p><b>S02.H.03</b> Temperature sensitivity of soil respiration in a sandy soil from Sahel region</p> <p><i>Martial Bernoux</i> <i>(Montpellier, France)</i></p>	<p><b>S18.H.01</b> Deconstructing Technosols in World Reference Base (WRB)</p> <p><i>Alan Kosse</i> <i>(Urbana, United States)</i></p>	<p><b>S24.H.03</b> Detection of impacts by genetically modified plants to the rhizosphere by molecular-chemical screening and comparison to conventional techniques</p> <p><i>André Schlichting</i> <i>(Groß Lüsewitz, Germany)</i></p>	<p><b>S04.H.03</b> The elasto-plastic behaviour of a variously grazed steppe soil from Inner Mongolia, P.R. China, under cyclic loading</p> <p><i>Julia Krümmelbein</i> <i>(Cottbus, Germany)</i></p>
<p><b>S09.H.04</b> Structure, functioning and impact of young teak (<i>Tectona grandis</i>) plantation on coal mine spoil in a dry tropical environment, India</p> <p><i>Anand Singh</i> <i>(Chandigarh, India)</i></p>	<p><b>S02.H.04</b> Interactions of Pedogenesis, Nitrogen and Carbon Stocks on a Transect Study Across the Qinghai-Xizang (Tibet) Plateau</p> <p><i>Frank Baumann</i> <i>(Tuebingen, Germany)</i></p>	<p><b>S18.H.02</b> Soil Transformation Peculiarities in the City Forest Park (Case Study in Moscow).</p> <p><i>Vadim Poputnikov</i> <i>(Moscow, Russian Federation)</i></p>	<p><b>S24.H.04</b> Transport und deposition of a genetically modified <i>Pseudomonas fluorescens</i> in saturated porous media</p> <p><i>Erwin Klumpp</i> <i>(Jülich, Germany)</i></p>	<p><b>S04.H.04</b> Compaction of cultivated soils: compressibility according to soil suction</p> <p><i>Pauline Défossez</i> <i>(Reims, France)</i></p>

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## Symposia – Thursday, August 28, 2008 – Block I (11:00 – 12:30)

HS 8	Festsaal	HS 11	HS 18	HS 13
<p><b>S01.I</b> <b>Soil Organic Matter - Climate Change</b></p> <p>Chair: <i>Frank Hagedorn</i> <i>Birmensdorf, Switzerland</i></p>	<p><b>S28.I</b> <b>Biodegradation and Bioavailability</b></p> <p>Chair: <i>Helena Soinne</i> <i>Helsinki, Finland</i> <i>Nanak Pasricha</i> <i>Dundahera, Gurgaon, India</i> <i>Marina Bastounopoulou</i> <i>Athens, Greece</i></p>	<p><b>S17.I</b> <b>Soil Degradation</b></p> <p>Chair: <i>Franc Lobnik</i> <i>Ljubljana, Slovenia</i></p>	<p><b>S10.I</b> <b>Development of national soil monitoring systems</b></p> <p>Chair: <i>Jozef Kobza</i> <i>Banska Bystrica, Slovakia</i></p>	<p><b>S07.I</b> <b>Soil moisture regimes II</b></p> <p>Chair: <i>Catalin Simota</i> <i>Bucharest, Romania</i></p>
<p><b>S01.I.01</b> Soil organic matter decomposition in tropical forests: a translocation experiment along an altitudinal transect in Peru.</p> <p><i>Michael Zimmermann</i> <i>(of Edinburgh, United Kingdom)</i></p>	<p><b>S28.I.01</b> Fate of fluorescent dissolved organic matter (FDOM) released from organic manures applied in cultivated soils: A biodegradation study</p> <p><i>Muhammad Bilal</i> <i>(Rennes, France)</i></p>	<p><b>S17.I.01</b> Organic C storage and organic fractions in carbonate-rich semi-arid soils after 20 years of continuous irrigation in NE Spain</p> <p><i>Iñigo Virto</i> <i>(Pamplona, Spain)</i></p>	<p><b>S10.I.01</b> Project „Development of the Croatian soil monitoring programme with a pilot project“ LIFE05 TCY/CRO/000105</p> <p><i>Andreja Čidić</i> <i>(Zagreb, Croatia)</i></p>	<p><b>S07.I.01</b> Using randomised moving plots to quantify the spatial variability of soil water dynamics in small forest areas</p> <p><i>Yvonne Morgenstern</i> <i>(Freiburg, Germany)</i></p>
<p><b>S01.I.02</b> Temperature sensitivity of SOM decomposition with depth: influence of SOM protection</p> <p><i>Jeroen Gillabel</i> <i>(Heverlee (Leuven), Belgium)</i></p>	<p><b>S28.I.02</b> Bioavailability of Si in long-term cultivated soils</p> <p><i>Flore Guntzer</i> <i>(Aix-en-Provence, France)</i></p>	<p><b>S17.I.02</b> Research of soil and water conservation measures for land use planning</p> <p><i>Jana Uhlířová</i> <i>(Brno, Czech Republic)</i></p>	<p><b>S10.I.02</b> Options for a UK Soil Monitoring Network to assess status and change in soil indicators</p> <p><i>Helaina Black</i> <i>(Aberdeen, United Kingdom)</i></p>	<p><b>S07.I.02</b> Database of soil-hydraulic properties of forest soils in Baden-Württemberg/Germany</p> <p><i>Heike Puhmann</i> <i>(Freiburg, Germany)</i></p>
<p><b>S01.I.03</b> Effects of a simulated summer drought on the contributions of new and old carbon to the CO<sub>2</sub>-efflux of Swiss grassland soils</p> <p><i>Ottmar Joos</i> <i>(of Zürich, Switzerland)</i></p>	<p><b>S28.I.03</b> Distribution and transformation of different forms of zinc in acid soils of Iran</p> <p><i>Sogol Rasouli</i> <i>(Zanjan, Iran)</i></p>	<p><b>S17.I.03</b> Identifying risk area for soil degradation of rural area in Wysokomazowiecka Upland - Poland</p> <p><i>Antoni Szafranek</i> <i>(Warszawa, Poland)</i></p>	<p><b>S10.I.03</b> Advances in long-term chemical soil monitoring of Switzerland</p> <p><i>André Desaules</i> <i>(Zürich, Switzerland)</i></p>	<p><b>S07.I.03</b> Electrical resistivity tomography monitoring of water deficit along pedological toposequence related to hedgerow</p> <p><i>Didier Michot</i> <i>(Rennes, France)</i></p>
<p><b>S01.I.04</b> Elevated CO<sub>2</sub> stimulates microbial growth and exoenzymes in soil aggregates</p> <p><i>Maxim Dorodnikov</i> <i>(Stuttgart, Germany)</i></p>	<p><b>S28.I.04</b> Sedimentation in paddy fields: A neglected issue associated with land use intensification</p> <p><i>Petra Schmitter</i> <i>(Hohenheim, Germany)</i></p>	<p><b>S17.I.04</b> Categorizing European soils according to the ability to retain or transmit diffuse source pollutants</p> <p><i>Metka Suhadolc</i> <i>(Ljubljana, Slovenia)</i></p>	<p><b>S10.I.04</b> An Issues and Goals of Development of a Soil Monitoring for Bulgaria</p> <p><i>Toma Shishkov</i> <i>(Sofia, Bulgaria)</i></p>	<p><b>S07.I.04</b> Functional parameter pedo-transfer functions of soil water characteristic curve in western Iran</p> <p><i>Mohammad Reza Mosaddeghi</i> <i>(Hamadan, Iran)</i></p>

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## Symposia – Thursday, August 28, 2008 – Block I (11:00 – 12:30)

HS 6	HS 7	HS 17	HS 14A	Böcklsaal
<b>S09.I</b> <b>Carbon</b>  Chair: <i>Jiri Kulhavy</i> <i>Brno, Czech Republic</i>	<b>S02.I</b> <b>Soils and Climate Change</b>  Chair: <i>Viliam Pichler</i> <i>Zvolen, Slovakia</i>	<b>S18.I</b> <b>Urban Soils Contamination</b>  Chair: <i>Wolfgang Burghardt</i> <i>Essen, Germany</i>	<b>S24.I.</b> <b>Soils and GMOs</b>  Chair: <i>Kornelia Smalla</i> <i>Braunschweig, Germany</i>	<b>S04.I</b> <b>Stress strain effects</b>  Chair: <i>Stephan Peth</i> <i>Kiel, Germany</i> <i>Milan Kroulik</i> <i>Prague, Czech Republic</i>
<b>S09.I.01</b> Influence of six European tree species on soil respiration, rates of carbon turnover and carbon stocks in a common garden experiment  <i>Lars Vesterdal</i> <i>(Hoersholm, Denmark)</i>	<b>S02.I.01</b> Long-term trends (1959-2006) in soil temperature, evidence for sub-soil warming and microbial responses  <i>David Hopkins</i> <i>(Dundee, United Kingdom)</i>	<b>S18.I.01</b> Reflecting spatial heterogeneity in heavy metal distribution of Technosols performing soil column tests  <i>Lutz Makowsky</i> <i>(Osnabrueck, Germany)</i>	<b>S24.I.01</b> Glyphosate modified rhizobacterial activities of transgenic soybean  <i>Su-Jung Kim</i> <i>(Seoul, Republic of Korea)</i>	<b>S04.I.01</b> Mechanical behaviour of structured and homogenized paddy soils under cyclic loading  <i>Imke Janßen</i> <i>(Kiel, Germany)</i>
<b>S09.I.02</b> Are soil organic carbon stocks affected by forest management?  <i>Erik Grüneberg</i> <i>(Jena, Germany)</i>	<b>S02.I.02</b> Factors controlling C mineralisation in topsoil and subsoil are different  <i>Naoise Nunan</i> <i>(Thiverval Grignon, France)</i>	<b>S18.I.02</b> Pollutant dispersion of alluvial soils in the industrialized region of Pernik, Bulgaria  <i>Helmut Meuser</i> <i>(Osnabrück, Germany)</i>	<b>S24.I.02</b> Adsorption and desorption of monomeric Bt ( <i>Bacillus thuringiensis</i> ) Cry1Aa toxin on two reference minerals : montmorillonite and kaolinite  <i>Nordine Helassa</i> <i>(Montpellier, France)</i>	<b>S04.I.02</b> Stress transmission in soil: Effects of tyre size, inflation pressure and wheel load  <i>Mathieu Lamandé</i> <i>(Aarhus, Denmark)</i>
<b>S09.I.03</b> Effects of thinning and clear-felling on greenhouse gas fluxes in Japanese cedar forest on Brown Forest soils  <i>Tomoaki Morishita</i> <i>(Tsukuba, Japan)</i>	<b>S02.I.03</b> Climate warming induced changes in temperature regimes of the East European Cryosols and associated soils  <i>Galina Mazhitova</i> <i>(Syktyvkar, Russian Federation)</i>	<b>S18.I.03</b> Historic waste disposal and present day contamination in Chat Moss, near Manchester, UK  <i>Nicola White</i> <i>(Nottingham, United Kingdom)</i>	<b>S24.I.03</b> Evaluation of some soil-dependent direct and indirect, inner and outer mycorrhizosphere parameters at field-grown GMO corn  <i>Borbála Biró</i> <i>(Budapest, Hungary)</i>	<b>S04.I.03</b> Effect of the inflation pressure on stress distribution and soil physical properties under dynamic load  <i>Alexander Zink</i> <i>(Kiel, Germany)</i>
<b>S09.I.04</b> Soil carbon and nitrogen pools after clear-cutting and scarification  <i>Sirpa Piirainen</i> <i>(Joensuu, Finland)</i>	<b>S02.I.04</b> Soil organic carbon stocks in the Canadian permafrost region and their role in climate change  <i>Charles Tarnocai</i> <i>(Ottawa, Canada)</i>	<b>S18.I.04</b> Accumulation and transport of lead in roadside soils  <i>Stéphanie Roulier</i> <i>(Zürich, Switzerland)</i>		<b>S04.I.04</b> Evaluation of frequency and total area of machinery passages in the field when using different tillage systems  <i>Milan Kroulik</i> <i>(Prague, Czech Republic)</i>

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## Symposia – Thursday, August 28, 2008 – Block J (14:00 – 16:00)

HS 8	Festsaal	HS 11	HS 18	HS 13
<p><b>S01.J</b> <b>Soil Organic Matter - Land use</b></p> <p>Chair: <i>David Hopkins</i> <i>Dundee, United Kingdom</i></p>	<p><b>S28.J</b> <b>Inorganic and Organic Pollutants</b></p> <p>Chair: <i>Judih Schick</i> <i>Braunschweig, Germany</i> <i>Ingrid Öborn</i> <i>Uppsala, Sweden</i> <i>Daniel Moraetis</i> <i>Chania, Greece</i></p>	<p><b>S17.J</b> <b>Soil Protection</b></p> <p>Chair: <i>Stephen Nortcliff</i> <i>Reading, United Kingdom</i></p>	<p><b>S10.J</b> <b>Results coming from soil monitoring systems</b></p> <p>Chair: <i>Jozef Kobza</i> <i>Banska Bystrica, Slovakia</i></p>	<p><b>S07.J</b> <b>Moisture flow in soils</b></p> <p>Chair: <i>Eduard Klaghofer</i> <i>Petzenkirchen, Austria</i></p>
<p><b>S01.J.01</b> Intensive grazing leads to degradation and spatial homogenization of topsoils in two major steppe types in Inner Mongolia, P.R. China  <i>Martin Wiesmeier</i> <i>(Freising-Weiherstephan, Germany)</i></p>	<p><b>S28.J.01</b> Effect of soil tillage and fertilization on micronutrients and heavy metals concentrations in a soil cultivated with corn and winter cereal  <i>Jorge Paz-Ferreiro</i> <i>(La Coruña, Spain)</i></p>	<p><b>S17.J.01</b> Fertilization Loads of Less Common Elements to Arable Soils in Austria  <i>Manfred Sager</i> <i>(Vienna, Austria)</i></p>	<p><b>S10.J.01</b> National Soil properties monitoring by means of the French soil test database  <i>Nicolas Saby</i> <i>(Olivet, France)</i></p>	<p><b>S07.J.01</b> Tracing preferential flowpaths using electrical conductivity measurements: What are the constraints?  <i>Cindy Hugenschmidt</i> <i>(Stuttgart, Germany)</i></p>
<p><b>S01.J.02</b> Is soil organic matter the link between soil management and soil resilience in agricultural soils in England?  <i>Andrew Gregory</i> <i>(Harpenden, United Kingdom)</i></p>	<p><b>S28.J.02</b> Input of organic micropollutants in soil through compost and sludge application: possible transfer to plants  <i>Sabine Houot</i> <i>(Thiverval-Grignon, France)</i></p>	<p><b>S17.J.02</b> Biological methods of fertility reproduction of antropogene degraded irrigated soils in Azerbaijan dry subtropics  <i>Firoza Ramazanova</i> <i>(Baku, Azerbaijan)</i></p>	<p><b>S10.J.02</b> Detecting changes in Scotland's soil resource  <i>Allan Lilly</i> <i>(Aberdeen, United Kingdom)</i></p>	<p><b>S07.J.02</b> Deriving point pedo-transfer functions of water retention for important soil series in Hamadan Province, western Iran  <i>Mohammad Reza Mosaddeghi</i> <i>(Hamadan, Iran)</i></p>
<p><b>S01.J.03</b> Soil organic matter dynamics in a long-term field experiment comparing conventional and organic farming: Evidence from fractionation and modelling  <i>Jens Leifeld</i> <i>(Zürich, Switzerland)</i></p>	<p><b>S28.J.03</b> Factors controlling the biodegradation of 17<math>\beta</math>-estradiol, estrone and 17<math>\alpha</math>-ethinylestradiol in different natural soils  <i>Britta Stumpe</i> <i>(Bochum, Germany)</i></p>	<p><b>S17.J.03</b> Trace elements in the soil of some specific localities on Mt. Medvednica  <i>Darko Baksic</i> <i>(Zagreb, Croatia)</i></p>	<p><b>S10.J.03</b> The Collection of Improved Soil Datasets for Soil Quality Monitoring  <i>Borut Vrčičaj</i> <i>(Ljubljana, Slovenia)</i></p>	<p><b>S07.J.03</b> Significance of tree roots to preferential flow in soils with stagnic properties  <i>Benjamin Lange</i> <i>(Birmensdorf, Switzerland)</i></p>
<p><b>S01.J.04</b> Conversion of cropland into grassland: Potential for soil organic carbon sequestration?  <i>Axel Don</i> <i>(Jena, Germany)</i></p>	<p><b>S28.J.04</b> Principal component analysis of the heavy metals distribution in soils  <i>Biljana Skrbic</i> <i>(Novi Sad, Serbia)</i></p>	<p><b>S17.J.04</b> Effect of conventional and reduced tillage systems on some physical and microbiological properties of silt loam and heavy loamy sand soils  <i>Ewa Czyz</i> <i>(Rzeszów, Poland)</i></p>	<p><b>S10.J.04</b> Elaboration of the soil monitoring module of the Hungarian Agro-Environmental Program  <i>József Szabó</i> <i>(Budapest, Hungary)</i></p>	<p><b>S07.J.04</b> Snowmelt infiltration through frozen forest soil  <i>Raimo Sutinen</i> <i>(Rovaniemi, Finland)</i></p>
<p><b>S01.J.05</b> Impact of tillage on carbon and nitrogen storage of two Haplic Luvisols  <i>Anna Jacobs</i> <i>(Witzenhausen, Germany)</i></p>	<p><b>S28.J.05</b> Arsenic, cadmium and uranium in soil solution extracts of forest and agricultural soils contaminated by uranium mining activities  <i>Sylvia Kratz</i> <i>(Braunschweig, Germany)</i></p>	<p><b>S17.J.05</b> Nutrient balances as required by the EC Nitrates Directive and national Fertiliser Ordinances. How to get from a farm level to a regional approach?  <i>Sylvia Warnecke</i> <i>(Vechta, Germany)</i></p>	<p><b>S10.J.05</b> The estimation of heavy metal mobility in soil monitoring  <i>Saglara Mandzhieva</i> <i>(Rostov-on-Don, Russian Federation)</i></p>	<p><b>S07.J.05</b> The usefulness of the stable isotope <sup>18</sup>O, <sup>2</sup>H and <sup>15</sup>N for a better understanding of the soil-water-plant system.  <i>Peggy Macaigne</i> <i>(Vienna, Austria)</i></p>
<p><b>S01.J.06</b> Nitrogen retention and plant uptake on a highly weathered central Amazonian Ferralsol amended with compost and charcoal  <i>Christoph Steiner</i> <i>(Athens, United States)</i></p>	<p><b>S28.J.06</b> Zinc speciation and exchangeability in six polluted soils  <i>Emmanuel Frossard</i> <i>(Zürich, Switzerland)</i></p>	<p><b>S17.J.06</b> The undercutter method of dryland wheat farming to control wind erosion in the western United States  <i>William Schillinger</i> <i>(Lind, United States)</i></p>		<p><b>S07.J.06</b> Measurement of soil hydraulic properties with a simple evaporation approach  <i>Uwe Schindler</i> <i>(Müncheberg, Germany)</i></p>

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## Symposia – Thursday, August 28, 2008 – Block J (14:00 – 16:00)

HS 6	HS 7	HS 17	HS 14A	Böcklsaal
<p><b>S09.J</b> <b>Forest operations - impacts on nutrition</b></p> <p>Chair: <i>Stefan Leitgeb</i> <i>Graz, Austria</i></p>	<p><b>S02.J</b> <b>Soils and Climate Change</b></p> <p>Chair: <i>Viliam Pichler</i> <i>Zvolen, Slovakia</i></p>	<p><b>S18.J</b> <b>Specific properties of Urban Soils</b></p> <p>Chair: <i>Jaroslava Sobocka</i> <i>Bratislava, Slovakia</i></p>	<p><b>S29.J</b> <b>Pedogenesis and Rates of Pedogenic Processes</b></p> <p>Chair: <i>Victor Targulian</i> <i>Moscow, Russian Federation</i></p>	<p><b>S04.J</b> <b>Deformation processes and modelling</b></p> <p>Chair: <i>Jerzy Lipiec</i> <i>Lublin, Poland</i> <i>Ferdo Basic</i> <i>Zagreb, Croatia</i></p>
<p><b>S09.J.KL</b> Element budgets for silvicultural management schemes - a tool for preserving ecosystem sustainability</p> <p><i>Klaus vonWilpert</i> <i>(Freiburg, Germany)</i></p>	<p><b>S02.J.01</b> Soil carbon sequestration potential in newly established prairies in previously cultivated Mollisols</p> <p><i>Mahdi Al-Kaisi</i> <i>(Ames, United States)</i></p>	<p><b>S18.J.01</b> Using magnetic properties to compare impact of atmospheric dust influx to O-horizon soils and terrestrial moss along a transect through Oslo</p> <p><i>Clemens Reimann</i> <i>(Trondheim, Norway)</i></p>	<p><b>S29.J.KL</b> Pedogenetic gold nuggets</p> <p><i>Richard Arnold</i> <i>(Washington, United States)</i></p>	<p><b>S04.J.01</b> A universally applicable term to express the stress situation in soils and its use</p> <p><i>Rainer Horn</i> <i>(Kiel, Germany)</i></p>
	<p><b>S02.J.02</b> Long-term monitoring of C dynamics in a temperate grassland ecosystem via stable isotopes (<sup>13</sup>C) in a Free Air CO<sub>2</sub> Enrichment (FACE) experiment</p> <p><i>Katharina Lenhart</i> <i>(Gießen, Germany)</i></p>	<p><b>S18.J.02</b> Spatial Distribution and Leaching of Selected Heavy Metals in the Soils of Urban Areas</p> <p><i>Mert Guney</i> <i>(Istanbul, Turkey)</i></p>		<p><b>S04.J.02</b> Evolution of structural soil properties after compaction and varying management practices</p> <p><i>Peter Weisskopf</i> <i>(Zürich, Switzerland)</i></p>
<p><b>S09.J.01</b> Synthesis of research on the nutritional sustainability of variable-retention harvesting as an alternative to clearcutting in northern forests</p> <p><i>Lucie Jerabkova</i> <i>(Vancouver, Canada)</i></p>	<p><b>S02.J.03</b> Free air CO<sub>2</sub> enrichment-induced life form- and species-specific responses of collembolans in arable soil</p> <p><i>Christine Sticht</i> <i>(Braunschweig, Germany)</i></p>	<p><b>S18.J.03</b> PAHs in river floodplain soils: sequestration by carbonaceous geosorbents</p> <p><i>Thilo Hofmann</i> <i>(Vienna, Austria)</i></p>	<p><b>S29.J.01</b> Rare - Earth Elemental Analysis as a Tool for Assessment of Chemical Weathering Rates of Eocene Flysch Deposits in Two Catchments in Istria, Croatia</p> <p><i>Ozren Hasan</i> <i>(Zagreb, Croatia)</i></p>	<p><b>S04.J.03</b> Predicting thermal conductivity based on soil strength and texture</p> <p><i>Jerzy Lipiec</i> <i>(Lublin, Poland)</i></p>
<p><b>S09.J.02</b> Effects of different soil preparations methods on the foliage N dynamics in Finnish boreal forests; <sup>15</sup>N natural abundance isotopic method approach</p> <p><i>Shambhu Sah</i> <i>(Helsinki, Finland)</i></p>	<p><b>S02.J.04</b> Cereal-based plant production systems to mitigate greenhouse gas emissions- a Danish perspective</p> <p><i>Lars Munkholm</i> <i>(Tjele, Denmark)</i></p>	<p><b>S18.J.04</b> Soil pollution with arsenic in the area of former gold and arsenic mining centre in Zloty Stok, SW Poland</p> <p><i>Anna Karczewska</i> <i>(Wrocław, Poland)</i></p>	<p><b>S29.J.02</b> Rates and characteristic periods of soil-forming processes activated due to windthrows in spruce forests at the Central region of Russia</p> <p><i>Ivan Vasenev</i> <i>(Moscow, Russian Federation)</i></p>	<p><b>S04.J.04</b> A method to assess the risk of soil compaction in france using a soil water model</p> <p><i>Marie-Pierre Lefebvre</i> <i>(Olivet, France)</i></p>
<p><b>S09.J.03</b> Aspects of the nutritional sustainability of forest management in Bavaria, Southern Germany</p> <p><i>Wendelin Weis</i> <i>(Freising, Germany)</i></p>	<p><b>S02.J.05</b> Effect of Silicate Fertilizer and Tillage Systems on Mitigating Methane Emission during Rice Cultivation</p> <p><i>Pil Joo Kim</i> <i>(Jinju, Republic of Korea)</i></p>	<p><b>S18.J.05</b> Bacterial and fungal abundances and diversities in a soil resulting from urban storm water infiltration</p> <p><i>Anne-Laure Badin</i> <i>(Lyon, France)</i></p>	<p><b>S29.J.03</b> Weathering and soil formation along a volcanic climosequence in Northern Taiwan</p> <p><i>Franz Zehetner</i> <i>(Vienna, Austria)</i></p>	<p><b>S04.J.05</b> Continuous on-field tillage force monitoring</p> <p><i>Mátyás Csiba</i> <i>(Mosonmagyaróvár, Hungary)</i></p>
<p><b>S09.J.04</b> Sustainable site productivity - is the expertise derived from agricultural long-term field experiments relevant to (intensively) managed forests?</p> <p><i>Heide Spiegel</i> <i>(Vienna, Austria)</i></p>	<p><b>S02.J.06</b> Changes in total soil C under different crop management systems and in never-tilled soil in a long-term experiment</p> <p><i>Alexandra Kravchenko</i> <i>(East Lansing, United States)</i></p>	<p><b>S18.J.06</b> Soil fauna influences the water and nutrient dynamics in urban soils</p> <p><i>Silvia Pieper</i> <i>(Berlin, Germany)</i></p>	<p><b>S29.J.04</b> Soil history reconstructed by sediment analyses in the French Alps</p> <p><i>Brice Mourier</i> <i>(Le Bourget du lac, France)</i></p>	<p><b>S04.J.06</b> Soil Compaction Modeling, Hand and Numerical Solving, Comparisons and Applications</p> <p><i>Petru Cardei</i> <i>(Bucharest, Romania)</i></p>

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## Symposia – Thursday, August 28, 2008 – Block K (16:30 – 18:00)

HS 8	Festsaal	HS 11	HS 18	HS 13
<p><b>S01.K</b> <b>Soil Organic Matter - Modelling</b></p> <p>Chair: <i>Jens Leifeld</i> <i>Zürich, Switzerland</i></p>	<p><b>S28.K</b> <b>Unfavorable Soil Conditions</b></p> <p>Chair: <i>Milan Mesic</i> <i>Zagreb, Croatia</i> <i>Rok Mihelic</i> <i>Ljubljana, Slovenia</i> <i>Jorge Paz-Ferreiro</i> <i>Coruña, Spain</i></p>	<p><b>S17.K</b> <b>Land Management</b></p> <p>Chair: <i>Luca Montanarella</i> <i>Ispra, Italy</i></p>	<p><b>S10.K</b> <b>Results coming from soil monitoring systems</b></p> <p>Chair: <i>Judit Berényi Üveges</i> <i>Budapest, Hungary</i></p>	<p><b>S07.K</b> <b>Soil physics</b></p> <p>Chair: <i>Kimmo Rasa</i> <i>Helsinki, Finland</i></p>
<p><b>S01.K.01</b> Soil structure dynamics and carbon sequestration</p> <p><i>Uwe Franko</i> <i>(Halle, Germany)</i></p>	<p><b>S28.K.01</b> Alleviation of salt stress in carrots with salt tolerant rhizosphere bacteria in arid soils of Uzbekistan</p> <p><i>Laziza Gafurova</i> <i>(Tashkent, Uzbekistan)</i></p>	<p><b>S17.K.01</b> A qualitative multi-attribute model for assessing the impact of management options on soil sustainability</p> <p><i>Bryan Griffiths</i> <i>(Wexford, Ireland)</i></p>	<p><b>S10.K.01</b> Topsoil-structure damages in forest soils - a survey based on the Level I - soil monitoring in Baden-Wuerttemberg</p> <p><i>Jürgen Schäffer</i> <i>(Freiburg, Germany)</i></p>	<p><b>S07.K.01</b> Shrinkage properties of clay soils of Finland</p> <p><i>Kimmo Rasa</i> <i>(Helsinki, Finland)</i></p>
<p><b>S01.K.02</b> Micro-scale modelling of carbon turnover driven by microbial succession at a biogeochemical interface</p> <p><i>Joachim Ingwersen</i> <i>(Stuttgart, Germany)</i></p>	<p><b>S28.K.02</b> Growth and mineral status of barley plants as affected by drought and foliar fertilization</p> <p><i>Refat Youssef</i> <i>(Egypt, Egypt)</i></p>	<p><b>S17.K.02</b> What would we like our soils to do and how do we decide?</p> <p><i>Willie Towers</i> <i>(Aberdeen, United Kingdom)</i></p>	<p><b>S10.K.02</b> Relevance of different soil fauna and microflora groups in the monitoring of soil biodiversity: RMQS-Biodiv, a french Pilote area experience</p> <p><i>Guénola Pérès</i> <i>(Paimpont, France)</i></p>	<p><b>S07.K.02</b> Evaluating single spherical aggregate (SSA) model in a saline silty clay soil</p> <p><i>Mohammad Neyshabouri</i> <i>(Tabriz, Iran)</i></p>
<p><b>S01.K.03</b> A model of the formation and movement of Dissolved Organic Nitrogen (DON) in soil</p> <p><i>Andrew Whitmore</i> <i>(Hertfordshire, United Kingdom)</i></p>	<p><b>S28.K.03</b> Soils of Georgia in living space: problems and perspectives</p> <p><i>Tengiz Urushadze</i> <i>(Tbilisi, Georgia)</i></p>	<p><b>S17.K.03</b> The loss of fertile land due to urbanisation process in the last decade - the case of slovenian cities</p> <p><i>Anka Liseč</i> <i>(Ljubljana, Slovenia)</i></p>	<p><b>S10.K.03</b> Comparison of soil organic matter and microbial respiration measurements at different scale</p> <p><i>Anita Gál</i> <i>(Gödöllő, Hungary)</i></p>	<p><b>S07.K.03</b> Discretization of spatial and temporal soil water variability into homogeneous zones based on electrical resistivity measurements at the field scale</p> <p><i>Arlène Besson</i> <i>(Olivet, France)</i></p>
<p><b>S01.K.04</b> RothC-Biota - a carbon accounting tool</p> <p><i>Bente Foereid</i> <i>(Aberdeen, United Kingdom)</i></p>	<p><b>S28.K.04</b> A novel microwave-assisted technique for measuring soluble organic N in soil extracts</p> <p><i>Farshid Nourbakhsh</i> <i>(Isfahan, Iran)</i></p>	<p><b>S17.K.04</b> Implementation of the concept of reference soils (RefeSols)</p> <p><i>Karlheinz Weinfurter</i> <i>(Schmallenberg, Germany)</i></p>	<p><b>S10.K.04</b> Perspectives for regional monitoring of soil organic matter in mineral soils</p> <p><i>Marjoleine Hanegraaf</i> <i>(Wageningen, Netherlands)</i></p>	<p><b>S07.K.04</b> Optimization of the drain-Regulation in hinterlands of low Mountain ranges under the aspect of natural flood retention</p> <p><i>David Bertermann</i> <i>(Erlangen, Germany)</i></p>

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## Symposia – Thursday, August 28, 2008 – Block K (16:30 – 18:00)

HS 6	HS 7	HS 17	HS 14A	Böcklsaal
<p><b>S09.K</b> <b>Forest operations - impacts on nutrition</b></p> <p>Chair: <i>Stefan Leitgeb</i> <i>Graz, Austria</i></p>	<p><b>S02.K</b> <b>Soils and Climate Change</b></p> <p>Chair: <i>Viliam Pichler</i> <i>Zvolen, Slovakia</i></p>	<p><b>S18.K</b> <b>Urban Soils, their Quality and Functions</b></p> <p>Chair: <i>Wolfgang Burghardt</i> <i>Essen, Germany</i></p>	<p><b>S29.K</b> <b>Soil Systems and Soil Body</b></p> <p>Chair: <i>Richard Arnold</i> <i>Washington, DC, United States</i></p>	<p><b>S04.K</b> <b>Consequences of soil deformation on physical properties</b></p> <p>Chair: <i>Márta Birkás</i> <i>Gödöllő, Hungary</i> <i>Rainer Horn</i> <i>Kiel, Germany</i></p>
<p><b>S09.K.01</b> Dynamic modelling of forest management effects on N retention and output at three catchments at the Harz Mountains, Germany</p> <p><i>Bernd Ahrends</i> <i>(Göttingen, Germany)</i></p>	<p><b>S02.K.01</b> Assessing long-term management and climate effects for comparing local adaptation strategies</p> <p><i>Vladimir Romanenkov</i> <i>(Moscow, Russian Federation)</i></p>	<p><b>S18.K.01</b> A method for soil environmental quality evaluation for its management and planning in urban areas</p> <p><i>Borut Vrččaj</i> <i>(Ljubljana, Slovenia)</i></p>	<p><b>S29.K.KL</b> Soil and Soil-Like Systems and Bodies: Soil-Functioning and Soil-Forming Processes</p> <p><i>Victor Targulian</i> <i>(Moscow, Russian Federation)</i></p>	<p><b>S04.K.01</b> Subsoil compaction as a climate damage indicator</p> <p><i>Márta Birkás</i> <i>(Gödöllő, Hungary)</i></p>
<p><b>S09.K.02</b> Evaluation of forest sites with regard to nutrient export by whole tree harvesting in Lower Saxony, Germany, using a nutrient depletion index</p> <p><i>Karl Josef Meiwes</i> <i>(Göttingen, Germany)</i></p>	<p><b>S02.K.02</b> Modelling green house emissions associated with application of biowaste to land</p> <p><i>Ruben Sakrabani</i> <i>(Cranfield, United Kingdom)</i></p>	<p><b>S18.K.02</b> Tool of environmental risk assessment in urban areas</p> <p><i>Jaroslava Sobočka</i> <i>(Bratislava, Slovakia)</i></p>	<p><b>S29.K.01</b> Pedogenesis on two sequences of marine terraces in Southern Italy</p> <p><i>Stephen Wagner</i> <i>(Stuttgart, Germany)</i></p>	<p><b>S04.K.02</b> Soil moisture and thermal regimes of soil cover with spatially distributed soil compacted layers</p> <p><i>Evgeny Shein</i> <i>(Moscow, Russian Federation)</i></p>
<p><b>S09.K.03</b> Reduction of ungulate density in mixed mountain forests of the Bavarian Limestone Alps results in improved soil fertility</p> <p><i>Jörg Prietzel</i> <i>(Freising-Weißenstephan, Germany)</i></p>	<p><b>S02.K.03</b> Effect of elevated CO<sub>2</sub> on the N cycle in grazed pasture</p> <p><i>Tobias Rütting</i> <i>(Giessen, Germany)</i></p>	<p><b>S18.K.03</b> Soil function living space for plants in urban land use planning</p> <p><i>Silke Höke</i> <i>(Osnabrück, Germany)</i></p>	<p><b>S29.K.02</b> Pedogenic properties of surface deposit as evidences on landscape formation of the Tadu tableland in central Taiwan</p> <p><i>Heng Tsai</i> <i>(Changhua, Taiwan)</i></p>	<p><b>S04.K.03</b> Assessing the reversibility of soil displacement after wheeling on restored soils</p> <p><i>Silvia Tobias</i> <i>(Birmensdorf, Switzerland)</i></p>
<p><b>S09.K.04</b> Does Cd promote the effects of wood ash on enchytraeids in coniferous forest soil?</p> <p><i>Jari Haimi</i> <i>(Jyväskylä, Finland)</i></p>	<p><b>S02.K.04</b> Quantification of gross N transformation rates in soils via 15N tracing</p> <p><i>Christoph Mueller</i> <i>(Dublin, Ireland)</i></p>	<p><b>S18.K.04</b> Ecoengineering soil by reinforcement with plant roots</p> <p><i>Paul Hallett</i> <i>(Dundee, United Kingdom)</i></p>	<p><b>S29.K.03</b> Physical and chemical properties of soils on farmer's fields fertilized by solid urban wastes in the peri-urban area of Ouagadougou, Burkina Faso</p> <p><i>Edmond Hien</i> <i>(Ouagadougou, Burkina Faso)</i></p>	<p><b>S04.K.04</b> Obtaining more information from soil bulk density depth function using classical soil mechanics</p> <p><i>Susanne Woche</i> <i>(Hannover, Germany)</i></p>

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## Symposia – Friday, August 29, 2008 – Block L (08:30 – 10:30)

HS 8	Festsaal	HS 11	HS 18	HS 13
<p><b>S14.L</b> <b>Organo-Mineral Interactions I</b></p> <p>Chair: <i>Ruben Kretzschmar</i> <i>Zürich, Switzerland</i> <i>Willem van Riemsdijk</i> <i>Wageningen, Netherlands</i></p>	<p><b>S15.L</b> <b>Soil Information systems - the State of Art</b></p> <p>Chair: <i>Michael Englisch</i> <i>Vienna, Austria</i> <i>Christine Le Bas</i> <i>Olivet, France</i></p>	<p><b>S05.L</b> <b>Overview of Soil Desertification and Salinisation Processes</b></p> <p>Chair: <i>Tibor Tóth</i> <i>Budapest, Hungary</i></p>	<p><b>S07.L</b> <b>Climate and soil hydrological processes</b></p> <p>Chair: <i>Thomas Lenhart</i> <i>Koblenz, Germany</i></p>	<p><b>S09.L</b> <b>Water relations</b></p> <p>Chair: <i>Klaus vonWilpert</i> <i>Freiburg, Germany</i></p>
<p><b>S14.L.KL</b> Mineral-organic associations in soil: a riddle wrapped in a conundrum inside an enigma ?</p> <p><i>Klaus Kaiser</i> <i>(Halle-Wittenberg, Germany)</i></p>	<p><b>S15.L.KL</b> Soil Information Systems - as an unifying factor in Soil Science</p> <p><i>Josef Kozak</i> <i>(Praha, Czech Republic)</i></p>	<p><b>S05.L.KL</b> Soil salinity: a coin with two sides including desertification and preservation of the natural resources</p> <p><i>José Álvarez-Rogel</i> <i>(Cartagena, Murcia, Spain)</i></p>	<p><b>S07.L.01</b> Effects of climate change on soil hydrological processes - A simple risk assessment</p> <p><i>Thomas Lenhart</i> <i>(Koblenz, Germany)</i></p> <p><b>S07.L.02</b> Soil management impact on soil water status under climate change</p> <p><i>Grazina Kadziene</i> <i>(Dotnuva-Akademija, Lithuania)</i></p>	<p><b>S09.L.KL</b> Excursion in South Moravia - Lack and surplus of water in floodplain forests and its impact on physiological processes and tree survival</p> <p><i>Jan Čermák</i> <i>(Brno, Czech Republic)</i></p>
<p><b>S14.L.01</b> Stabilization of dissolved organic matter by sorption to amorphous Al hydroxide</p> <p><i>Karsten Kalbitz</i> <i>(Bayreuth, Germany)</i></p>	<p><b>S15.L.01</b> Towards the European Soil Data Centre</p> <p><i>Marc Van Liedekerke</i> <i>(Ispra, Italy)</i></p>	<p><b>S05.L.01</b> Soil salinity in Veneto plain</p> <p><i>Francesca Ragazzi</i> <i>(Castelfranco Veneto, Italy)</i></p>	<p><b>S07.L.03</b> Impact of climate uncertainties and soil characteristics on maize irrigation requirements in South Bulgaria</p> <p><i>Zornitsa Popova</i> <i>(Sofia, Bulgaria)</i></p>	<p><b>S09.L.01</b> Soil water budget and sap flow measurements of a 9-yr-old short rotation poplar plantation in Saxony (Germany)</p> <p><i>Rainer Petzold</i> <i>(Tharandt, Germany)</i></p>
<p><b>S14.L.02</b> Precipitation or co-precipitation of organic matter by Al - controls and impacts</p> <p><i>Thorsten Scheel</i> <i>(Bayreuth, Germany)</i></p>	<p><b>S15.L.02</b> Development of the Croatian Soil Information System</p> <p><i>Marija Bajica</i> <i>(Zagreb, Croatia)</i></p>	<p><b>S05.L.02</b> Assessment and mapping of area prone desertification processes in the saline rangelands of Southern Caspian Sea</p> <p><i>Majid Ownegh</i> <i>(Gorgan, Iran)</i></p>	<p><b>S07.L.04</b> Pedological change detection of Nile River course and its islands, Egypt</p> <p><i>Alaa ElDin El Nahry</i> <i>(ElNozha ElGedida, Egypt)</i></p>	<p><b>S09.L.02</b> Soil moisture regime of Silver birch (<i>Betula pendula</i>) and Norway spruce (<i>Picea abies</i> (L.) Karst.) during variable weather conditions</p> <p><i>Karl Gartner</i> <i>(Vienna, Austria)</i></p>
<p><b>S14.L.03</b> Humic substances adsorption to iron oxides and its effects on adsorption of cations and anions</p> <p><i>Willem van Riemsdijk</i> <i>(Wageningen, Netherlands)</i></p>	<p><b>S15.L.03</b> A database for the monitoring of forest soils over Europe: data management for the BioSoil Project</p> <p><i>Eva Lacarce</i> <i>(Olivet, France)</i></p>	<p><b>S05.L.03</b> Desertification and Soil Degradation in the southern forest steppe zone of Western Siberia</p> <p><i>Burghard Meyer</i> <i>(Dortmund, Germany)</i></p>	<p><b>S07.L.05</b> Head balance elements evaluation of the soil and canopy by remote sensing</p> <p><i>Nikola Kolev</i> <i>(Sofia, Bulgaria)</i></p>	<p><b>S09.L.03</b> Spatial distribution of temperatures and water dynamics in the soil of a small clear fell</p> <p><i>Daniel Fröhlich</i> <i>(Göttingen, Germany)</i></p>
<p><b>S14.L.04</b> Sorption of Cr(III) on mixed montmorillonite Al-Fe humic acid complexes</p> <p><i>Claudio Massimo Colombo</i> <i>(Campobasso, Italy)</i></p>	<p><b>S15.L.04</b> A high-resolution digital conceptual soil mapsoil map based on soil-relief relationships</p> <p><i>Detlef Deumlich</i> <i>(Muencheberg, Germany)</i></p>	<p><b>S05.L.04</b> Salinization of paddy fields in Northeastern Thailand</p> <p><i>Jean-Pierre Montoroi</i> <i>(Bondy, France)</i></p>	<p><b>S07.L.06</b> Dynamics of redox potential and mobilisation of heavy metals in flood retention basins</p> <p><i>Claudia Kreschnak</i> <i>(Stuttgart, Germany)</i></p>	

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## Symposia – Friday, August 29, 2008 – Block L (08:30 – 10:30)

HS 6	HS 7	HS 17	HS 14A	Böcklsaal
<p><b>S22.L</b> <b>SOIL: from reality to virtuality</b></p> <p>Chair: <i>Monika Tulipan</i> <i>Vienna, Austria</i> <i>Mireille Dosso</i> <i>Montpellier, France</i></p>	<p><b>S12.L</b> <b>Management of Contaminated Soils: concepts and policy development I</b></p> <p>Chair: <i>Harald Kasamas</i> <i>Vienna, Austria</i></p>			
<p><b>S22.L.KL</b> To raise soil awareness - a hard job, but worth to go for it</p> <p><i>Günther Miehlich</i> <i>(Hamburg, Austria)</i></p>	<p><b>S12.L.KL</b> European policy developments for the management of contaminated land</p> <p><i>Joop Vegter</i> <i>(Amstelveen, Netherlands)</i></p>			
<p><b>S22.L.01</b> Experience of making soil ecology excursions: what is in the future?</p> <p><i>Andrey Babenko</i> <i>(Tomsk, Russian Federation)</i></p>	<p><b>S12.L.01</b> Management of contaminated soils in Turkey: Legal framework and national programme development</p> <p><i>Burcu Özkaraova Güngör</i> <i>(Samsun, Turkey)</i></p>			
<p><b>S22.L.02</b> (Forest) Soil Education Trail "Taferlklause"</p> <p><i>Edwin Herzberger</i> <i>(Vienna, Austria)</i></p>	<p><b>S12.L.02</b> Development of a decision making tool for remediation of contaminated sites in Austria</p> <p><i>Thomas Reichenauer</i> <i>(Seibersdorf, Austria)</i></p>			
<p><b>S22.L.03</b> SoilWeb: An Interactive, On-Line Teaching Tool</p> <p><i>Maja Krzic</i> <i>(Vancouver, Canada)</i></p>	<p><b>S12.L.03</b> Sustainable management of trace element contaminated soils - The SUMATECS project</p> <p><i>Markus Puschenreiter</i> <i>(Vienna, Austria)</i></p>			
<p><b>S22.L.04</b> E-learning tools in soil physics</p> <p><i>Beatrice Kulli Honauer</i> <i>(Zürich, Switzerland)</i></p>	<p><b>S12.L.04</b> The detection of outliers in trace element content in soils based on the French Soil Quality Monitoring Network</p> <p><i>Véronique Antoni</i> <i>(Orleans, France)</i></p>			

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## Symposia – Friday, August 29, 2008 – Block M (11:00 – 12:30)

HS 8	Festsaal	HS 11	HS 18	HS 13
<b>S14.M</b> <b>Organo-Mineral Interactions II</b>  Chair: <i>Ruben Kretzschmar</i> <i>Zürich, Switzerland</i> <i>Willem van Riemsdijk</i> <i>Wageningen, Netherlands</i>	<b>S15.M</b> <b>Application of GIS on solving of soil related problems</b>  Chair: <i>Michael Englisch</i> <i>Vienna, Austria</i> <i>Christine Le Bas</i> <i>Olivet, France</i>	<b>S05.M</b> <b>Assessment of Soil Desertification and Salinisation</b>  Chair: <i>Jozef Deckers</i> <i>Leuven, Belgium</i>	<b>S07.M</b> <b>Irrigation</b>  Chair: <i>Lobna Gharbi Tarchouna</i> <i>Toulon, France</i>	<b>S09.M</b> <b>Water relations II</b>  Chair: <i>Klaus vonWilpert</i> <i>Freiburg, Germany</i>
<b>S14.M.01</b> Monte Carlo simulation of TPP+ arrangements in the interlayer space and at the external surface of Na-montmorillonite  <i>Florian Jeschke</i> <i>(Hannover, Germany)</i>	<b>S15.M.KL</b> Where is the information from 100 years soil surveying and research in Europe?  <i>Rainer Baritz</i> <i>(Hannover, Germany)</i>	<b>S05.M.01</b> Risk assessment methods of salinization in Europe: a quick look  <i>Tibor Tóth</i> <i>(Budapest, Hungary)</i>	<b>S07.M.01</b> The influence of irrigation on a calcic chernozem in the eastern region of Romania  <i>Florian Statescu</i> <i>(Iasi, Romania)</i>	<b>S09.M.01</b> Mapping of soil water regime of forest sites based on spatially distributed process modeling  <i>Kai Schwärzel</i> <i>(Tharandt, Germany)</i>
<b>S14.M.02</b> Adsorption of HDPy+ to muscovite- and montmorillonite-aqueous solution interface: A Monte Carlo study  <i>Artur Meleshyn</i> <i>(Hannover, Germany)</i>		<b>S05.M.02</b> Evaluation of an index for spatial assessment of environmental sensible areas to desertification at national scale  <i>Catalin Simota</i> <i>(Bucharest, Romania)</i>	<b>S07.M.02</b> Canola, Brassica napus, L., plant growth characteristics and productivity in response to adaptation, moisture and soil salinity  <i>Salah Zarad</i> <i>(Cairo, Egypt)</i>	<b>S09.M.02</b> Climatic water balance and available soil water storage capacity as indicators for possible climate change effects on forest ecosystems  <i>Henning Meesenburg</i> <i>(Goettingen, Germany)</i>
<b>S14.M.03</b> Increasing pH drives the release of organic matter in wetlands soils under reductive conditions  <i>Malgorzata Grybos</i> <i>(Rennes, France)</i>	<b>S15.M.01</b> Mapping of trace element contents and enrichment factors in topsoils in the Nord-Pas de Calais region (France)  <i>Denis Baize</i> <i>(Olivet, France)</i>	<b>S05.M.03</b> Soil salinization and alkalization in the Lower Cheliff valley (Algeria)  <i>Abdelkader Douaoui</i> <i>(Chlef, Algeria)</i>	<b>S07.M.03</b> Improvement of Salt-affected Soils: 1-Acidify of irrigation water and soil water movement  <i>Mohamed Salem</i> <i>(Cairo, Egypt)</i>	<b>S09.M.03</b> Influence of management on soil moisture content and soil solution quality in the forests in the Dinaric karst  <i>Primo Simončič</i> <i>(Ljubljana, Slovenia)</i>
	<b>S15.M.02</b> Study of the surface soil geochemistry in the Neretva River Valley (Croatia) using GIS and geostatistics  <i>Monika Zovko</i> <i>(Zagreb, Croatia)</i>	<b>S05.M.04</b> Impact of seawater flooding caused by the 26 December 2004 tsunami disaster on physico-chemical and microbial properties of arable soils in Banda Aceh, Indonesia  <i>Stephan Wirth</i> <i>(Müncheberg, Germany)</i>	<b>S07.M.04</b> Soil-type impact on water and nitrogen distribution in the root zone of peach trees under drip-fertigation  <i>Kouman Koumanov</i> <i>(Plovdiv, Bulgaria)</i>	<b>S09.M.04</b> Reliability of field tests for ferrous iron (Fell) to identify compaction damages in forest soils  <i>Ernst Hildebrand</i> <i>(Freiburg, Germany)</i>

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## Symposia – Friday, August 29, 2008 – Block M (11:00 – 12:30)

HS 6	HS 7	HS 17	HS 14A	Böcklsaal
<p><b>S22.M</b> Awakening conciousness and raising awareness about soil</p> <p>Chair: <i>Monika Tulipan</i> <i>Vienna, Austria</i></p>	<p><b>S12.M</b> Management of Contaminated Soils: concepts and policy developement II</p> <p>Chair: <i>Joop Vegter</i> <i>Amstelveen, Netherlands</i></p>			
<p><b>S22.M.01</b> How much land do we possess - how much land do we consume</p> <p><i>Othmar Nestroy</i> <i>(Graz, Austria)</i></p>	<p><b>S12.M.01</b> Advancing Innovative Remediation Technologies in Europe through Networking</p> <p><i>Dietmar Müller</i> <i>(Vienna, Austria)</i></p>			
<p><b>S22.M.02</b> Standards for soil topics in education in Europe</p> <p><i>Karin Geyer</i> <i>(Vechta, Germany)</i></p>	<p><b>S12.M.02</b> Feasibility in Application of Different Remediation Methods of Petroleum Pollutants in soil and its Algorithm in Industrial Case</p> <p><i>Soheila Ebrahimi</i> <i>(Tehran, Iran)</i></p>			
<p><b>Discussion:</b> Towards a European network on soil awareness?</p> <p><i>Gabriele Broll</i> <i>(Vechta, Germany)</i></p>	<p><b>S12.M.03</b> Former/present and future risks of excess heavy metal input to terrestrial ecosystems</p> <p><i>Sergey Koptsik</i> <i>(Moscow, Russian Federation)</i></p>			
	<p><b>S12.M.04</b> Effect of endophytic fungi on Cd tolerance of <i>Festuca arundinacea</i> and <i>Festuca Peratensis</i> grown in a hydroponic system</p> <p><i>Mohsen Soleimani</i> <i>(Isfahan, Iran)</i></p>			

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## Symposia – Friday, August 29, 2008 – Block N (14:00 – 16:00)

HS 8	Festsaal	HS 11	HS 18	HS 13
<p><b>S14.N</b> <b>Organo-Mineral Interactions III</b></p> <p>Chair: <i>Ruben Kretzschmar</i> <i>Zürich, Switzerland</i> <i>Willem van Riemsdijk</i> <i>Wageningen, Netherlands</i></p>	<p><b>S15.N</b> <b>Application of GIS on solving of soil related problems</b></p> <p>Chair: <i>Christine Le Bas</i> <i>Olivet, France</i> <i>Michael English</i> <i>Vienna, Austria</i></p>	<p><b>S05.N</b> <b>Mechanisms of Soil Degradation and the Means for Recuperation</b></p> <p>Chair: <i>José Álvarez-Rogel</i> <i>Cartagena, Murcia, Spain</i></p>	<p><b>S07.N</b> <b>Soil-water-plant relationships</b></p> <p>Chair: <i>Laura Hathaway-Jenkins</i> <i>Cranfield, United Kingdom</i></p>	<p><b>S09.N</b> <b>Biogeochemistry</b></p> <p>Chair: <i>Helga Van Miegroet</i> <i>Logan, UT, United States</i></p>
<p><b>S14.N.01</b> Bradford reactive soil protein, glomalin, accounts for a large proportion of organic matter in forest soils of Martinique, French West Indies</p> <p><i>Siobhán Staunton</i> <i>(Montpellier, France)</i></p>	<p><b>S15.N.01</b> A digital soil mapping application for delineating landscape pattern in France</p> <p><i>Véronique Antoni</i> <i>(Olivet, France)</i></p>	<p><b>S05.N.01</b> Changes in soil physical (hydraulic and mechanical) properties of grassland soils as affected by grazing intensity at Stipa grandis steppe in Inner Mongolia</p> <p><i>Agnieszka Reszkowska</i> <i>(Kiel, Germany)</i></p>	<p><b>S07.N.01</b> Yield - water relationship of soybean</p> <p><i>Alexander Matev</i> <i>(Plovdiv, Bulgaria)</i></p>	<p><b>S09.N.01</b> Soil moisture influence on carbon and nitrogen mineralization in two adjacent coniferous forest types on northern Vancouver Island</p> <p><i>Toktam Sajedi</i> <i>(Vancouver, Canada)</i></p>
<p><b>S14.N.02</b> Characterization of organo-mineral associations by sequential density fractionation of two contrasting soils</p> <p><i>Alain Plante</i> <i>(Philadelphia, United States)</i></p>	<p><b>S15.N.02</b> Dynamic soil data management facilitating harmonisation, access and communication of soil data in web-based distributed systems</p> <p><i>Einar Eberhardt</i> <i>(Hannover, Germany)</i></p>	<p><b>S05.N.02</b> Chemical degradation of soils caused by agronomic practices in a zone influenced by mining activities</p> <p><i>Carmen Perez-Sirvent</i> <i>(Murcia, Spain)</i></p>	<p><b>S07.N.02</b> Subsoil compaction, structure degradation under the effect of specific water regime in soil land-reclamation constructions over a period of 20 years</p> <p><i>Aminat Umarova</i> <i>(Moscow, Russian Federation)</i></p>	<p><b>S09.N.02</b> DOC properties of forest floor solutions under Norway spruce and Douglas fir on a Cambisol (Morvan, France)</p> <p><i>Hugues Titeux</i> <i>(Louvain-la-Neuve, Belgium)</i></p>
<p><b>S14.N.03</b> Weathering of ferric-oxyhydroxides in the humid tropics : a story of interactions between bacteria-organic matter and mineral</p> <p><i>Jacques Berthelin</i> <i>(Vandoeuvre les Nancy, France)</i></p>	<p><b>S15.N.03</b> Web municipal SIS for evaluation of human health risk due to soil pollution and urban soil management</p> <p><i>Laura Poggio</i> <i>(Ispra, Italy)</i></p>	<p><b>S05.N.03</b> Microbial use of organic amendments in saline soils monitored by changes in the 13C/12C ratio</p> <p><i>Khalid Khan</i> <i>(Witzenhausen, Germany)</i></p>	<p><b>S07.N.03</b> Effect of no tillage on Vertisol hydrodynamic properties</p> <p><i>Rachid Moussadek</i> <i>(Ghent, Belgium)</i></p>	<p><b>S09.N.03</b> Evaluation of silicon stocks and uptake in five forest stands on an acid brown soil</p> <p><i>Jean-Thomas Cornélis</i> <i>(Louvain-la-Neuve, Belgium)</i></p>
<p><b>S14.N.04</b> The hydromechanical response of soils with different clay mineralogy to biological exudates</p> <p><i>Pierre Barré</i> <i>(Dundee, United Kingdom)</i></p>	<p><b>S15.N.04</b> Development of a bottom-up approach for soil indicators: organic carbon and soil loss assessment for the Italian territory</p> <p><i>Paolo Giandon</i> <i>(Castelfranco Veneto, Italy)</i></p>	<p><b>S05.N.04</b> Reducing the effect of salinity impact on two wheat cultivars using biofertilization, antioxidant and micronutrients</p> <p><i>Maybelle Gaballah</i> <i>(Cairo, Egypt)</i></p>	<p><b>S07.N.04</b> A comparison of the effects of conventional and organic farming practices on soil physical and hydraulic properties in the UK</p> <p><i>Laura Hathaway-Jenkins</i> <i>(Cranfield, United Kingdom)</i></p>	<p><b>S09.N.04</b> Weathering state of coarse soil fragments affects nutrient uptake by tree seedlings</p> <p><i>Nina Koele</i> <i>(Freiburg, Germany)</i></p>
<p><b>S14.N.05</b> Pouloud, a model to predict the soil aggregate stability dynamics after the input of an organic product</p> <p><i>Samuel Abiven</i> <i>(Zürich, Switzerland)</i></p>			<p><b>S07.N.05</b> Nutrient movement and losses from irrigated warm climate vineyards in Australia</p> <p><i>Jonathan Holland</i> <i>(Wagga Wagga, Australia)</i></p>	<p><b>S09.N.05</b> Hidden fluxes of organic matter- the importance of canopy-derived particulate organic matter (POM) in forest ecosystems</p> <p><i>Beate Michalzik</i> <i>(Jena, Germany)</i></p>
			<p><b>S07.N.06</b> Modelling of water and nitrate dynamics in sandy soils in consideration of forage cropping systems - integration of dynamic plant growth for grassland and maize in a soil - plant - atmosphere - transfer model</p> <p><i>Yvonne Conrad</i> <i>(Kiel, Germany)</i></p>	<p><b>S09.N.06</b> Calcium and magnesium content in throughfall and seepage waters under Norway spruce stands in a mountain area affected by liming</p> <p><i>Jiri Kulhavy</i> <i>(Brno, Czech Republic)</i></p>

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## Symposia – Friday, August 29, 2008 – Block N (14:00 – 16:00)

HS 6	HS 7	HS 17	HS 14A	Böcklsaal
<p><b>S22.N</b> Connecting Soil to Society</p> <p>Chair: <i>Mireille Dosso</i> <i>Montpellier, France</i></p>				
<p><b>S22.N.01</b> Soils and Soil related Subjects on Stamps</p> <p><i>Hans-Peter Blume</i> <i>(Kiel, Germany)</i></p>	N			
<p><b>S22.N.02</b> Ecological aesthetics as catalyst for the discovery of soil as living space</p> <p><i>Beatrice Voigt</i> <i>(Muenchen, Germany)</i></p>				
<p><b>S22.N.03</b> Soil and Art- on the aesthetics of dirt</p> <p><i>Gerd Wessolek</i> <i>(Berlin, Germany)</i></p>				
<p><b>S22.N.04</b> Connecting soil to society - experiences of different approaches from Scotland</p> <p><i>Willie Towers</i> <i>(Aberdeen, United Kingdom)</i></p>				
<p><b>S22.N.05</b> Action Soil of the Year in Germany</p> <p><i>Monika Frielinghaus</i> <i>(Müncheberg, Germany)</i></p>				
<p><b>Closing</b> of the session</p> <p><i>Monika Tulipan</i> <i>(Vienna, Austria)</i></p>				

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# Posters

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There are four different poster sessions:

Poster Session	Session 1	Session 2	Session 3	Session 4
Display Date	Monday, August 25	Tuesday, August 26	Thursday, August 28	Friday, August 29
Poster Number	P001 – P178	P179 – P376	P377 – P568	P569 – P747
Presence at Poster	12.30 - 14.00	12.30 - 14.00	12.30 - 14.00	12.30 - 14.00
Poster Mounting Time	08.00 - 10.30	08.00 - 10.30	08.00 - 10.30	08.00 - 10.30
Poster Removal Time	16.30 - 18.00	16.30 - 18.00	16.30 - 18.00	16.30 - 18.00

**Poster Board:** You will find your poster board number in the author index at the end of the abstract book as well as in this programme. Staff at the poster service desk will assist you to find your poster board and provide you with adhesive material.

**Presence at posters:** In order to enable discussion and interaction with other participants, we request the main author or another member of the group to be at the poster board at the times noted above. If this is not possible, we request the authors to leave a note on the poster indicating the times when they will be present at the board.

**Please note** that the organisers cannot assume any liability for loss or damage of posters displayed in the poster area. Posters that are not removed by 18.00 hrs on the day of the respective Session, will be removed by staff and will not be stored or sent to the author after the meeting.

**Please find a list of the topics presented in the respective session below:**

**Poster Session 1:** S06, S08, S11, S19, S20, S23, S25, S27, S30

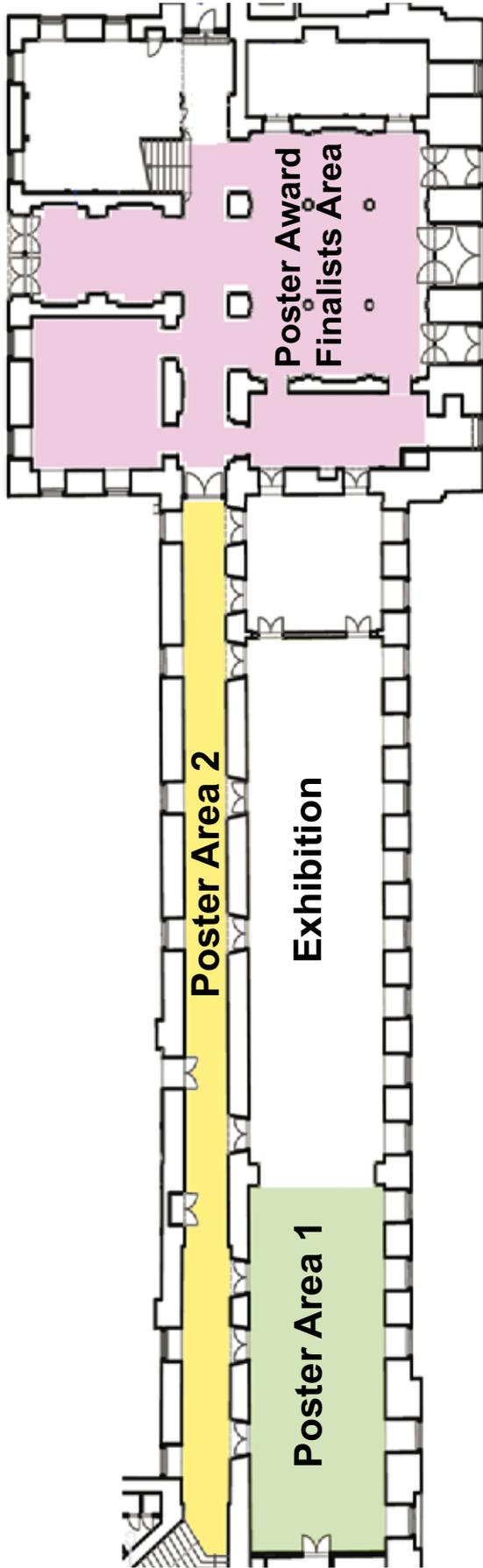
**Poster Session 2:** S01, S03, S13, S16, S21A, S21B, S26

**Poster Session 3:** S04, S10, S17, S18, S24, S28

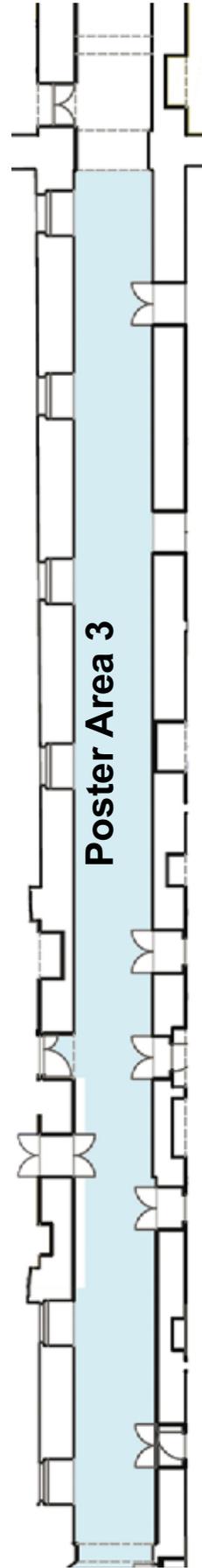
**Poster Session 4:** S02, S05, S07, S09, S12, S14, S15, S22, S29

# Poster plan

**Level 0**



**Level 1**



⇨ to Registration Area

## Poster Session 1 (Monday, 25 August, 2008)

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### S20 Soil Classification (Poster Area 1)

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- P001** Genesis and classification of some soils derived from gypsiferous and calcareous material in Wadi el-Sheikh, Beni Suef, Egypt  
*Gamil Ageeb (Cairo, Egypt)*
- P002** Spectrophotometric method of Soil Classification  
*Ali Jafarov (Baku, Azerbaijan)*
- P003** Using a geopedologic approach to increase soil-map unit purity: a case study of Aqqaleh area, Iran  
*Siros Shakeri (Tehran, Iran)*
- P004** An optimal approach for quantitative land suitability evaluation using geostatistics, remote sensing (RS) and geographic information system (GIS)  
*Mostafa Emadi (Shiraz, Iran)*
- P005** Proposed Canadian approach for enhanced A horizon designations for characterizing topsoil quality  
*Catherine Fox (Harrow, ON Canada)*
- P006** The system of the land-capability classification in Poland  
*Piotr Sklodowski (Warsaw, Poland)*
- P007** Burnt soils and proposal of their position in National classification  
*Izet Čengić (Sarajevo, Bosnia and Herzegovina)*
- P008** Correlation problems with WRB of some soils of the Sopron- Neusiedler See region  
*Márta Fuchs (Gödöllő, Hungary)*

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### S30 Micromorphological and mineralogical features (evidence) of soil environmental change (Poster Area 1)

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- P009** Major problems in quantifying amorphous silica in soils  
*Anna Danilova (Stuttgart, Germany)*
- P010** Impact of pollution on the clay mineralogical composition of some soils from Zlatna zone (Romania)  
*Constantin Craciun (Bucharest, Romania)*
- P011** Clay mineralogy influence on the physical and chemical properties of vertisols from Romania  
*Victoria Mocanu (Bucharest, Romania)*
- P012** Black carbon fall out impact on soil life in Copsa Mica-Romania  
*Daniela Raducu (Bucharest, Romania)*

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### S06 Soil and Water – Theory (Poster Area 1)

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- P013** Derivation of Pedo-transfer functions for predicting soil retention curve in some saline and saline-sodic soils of Iran  
*Hojat Emami (Karaj, Iran)*

**P014** Prediction of soil retention curve in some saline-sodic soils of Iran by using of Rosetta software  
*Hojat Emami (Karaj, Iran)*

- P015** Modeling soil permeability based on fuzzy system for calcareous soils in Marbore watershed, Iran  
*Hojat Ghorbani Vaghei (Tehran, Iran)*
- P016** Response of soil dehydrogenase activity to varied conditions of water potential and oxygen availability  
*Agnieszka Wolinska (Lublin, Poland)*
- P017** Evaluating local soil-root interactions with 3D plant scale models  
*Tom Schröder (Jülich, Germany)*
- P018** Soil micromorphological features in soil hydraulic properties obtained using three various techniques  
*Radka Kodesova (Prague, Czech Republic)*
- P019** Verification of capillary crumbling model for estimation of optimum soil water content for tillage in western Iran  
*Mohammad Reza Mosaddeghi (Hamadan, Iran)*
- P020** Physical-statistical model of dielectric permittivity in soil  
*Boguslaw Usowicz (Lublin, Poland)*
- P021** Model analysis of water balance sensitivity to uncertainty in plant root distribution under different climate, moisture and soil conditions  
*Gernot Bodner (Vienna, Austria)*
- P022** Monitoring soil solution electrical conductivity in agricultural field  
*Raimo Sutinen (Rovaniemi, Finland)*
- P023** A 3D structural model of a lignitic mine soil based on classification and interpolation of profile images  
*Horst Gerke (Muencheberg, Germany)*
- P024** Rainfall electrical conductivity evaluation in two different locations in South Brazil  
*Francine Calil (Santa Maria, Brazil)*
- P025** The effect of debris layers on the water balance of an urban soil profile  
*Katharina Appel (Berlin, Germany)*
- P026** Laboratory-scale modelling and observation of LNAPL - APL transport in porous media  
*Svatopluk Matula (Prague, Czech Republic)*
- P027** Design and analysis of structures in and on expansive soils  
*Hussein Elarabi (Khartoum, Sudan)*
- P028** The occurrence of soil water repellency under different vegetation and land uses in central Iran  
*Mohammad Hajabbasi (Isfahan, Iran)*

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### S19 Soil Forming Processes and Soil Morphology (Poster Area 1)

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- P029** Surface water chemistry: the key to partitioning matter sources and assessing carbon cycle parameters  
*Mikhail Semenov (Irkutsk, Russian Federation)*

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## Poster Session 1 (Monday, 25 August, 2008)

- P030** Soil evolution in a dune coastal ecosystem of north-eastern Sardinia  
*Gian Franco Capra (Nuoro, Italy)*
- P031** Chronosequential alterations of properties of post-agrogenic sandy southern taiga soils of Russia under self-restoration  
*Olga Kalinina (Oldenburg, Germany)*
- P032** Genesis and characteristics of clay rich subsoil horizons in two soils on limestone at the Teutoburg Forest/Germany  
*Klaus Mueller (Osnabrück, Germany)*
- P033** Unmixing parent materials of soils using linear combination of sand fractions on a catena in western France  
*Celine Collin Bellier (Orleans, France)*
- P034** Phosphorus compounds in soils with bog iron ore horizons or iron precipitations  
*Lidia Oktaba (Warsaw, Poland)*
- P035** The impact of carbon management on the soil's macropore structure in an orchard  
*Markus Deurer (Palmerston North, New Zealand)*
- P036** Soils of temporary ponds in the Doñana National Park (SW Spain) - Morphological traits and water persistence  
*Patricia Siljeström (Sevilla, Spain)*
- P037** Soil development on spongilitic marlstones in natural and human impacted systems at selected localities of Prague (Czech Republic)  
*Anna Zigova (Prague, Czech Republic)*
- P038** Meliorative memory of gypsic pedofeatures  
*Marina Lebedeva-Verba (Moscow, Russian Federation)*
- P039** Formation of Cambic B horizons in Western Carpathians, their characterization and classification  
*Emil Fulajtar (Bratislava, Slovakia)*
- P040** Pedochemical correlation of evaluated soils on secondary volcanic products from Gurghiu and Hargita Mountains (Eastern Carpathians, Romania)  
*Constantin Rusu (Iasi, Romania)*
- P041** The mineralogy and geochemistry of some horticultural soils - case study: glasshouses from Iasi and Bacau Cities (Romania)  
*Feodor Filipov (Iasi, Romania)*
- P042** The contents of easily mobile forms of Mn, Cr and Ni in rankers on the serpentinite massifs in Serbia  
*Aleksandar Djordjevic (Belgrade/Zemun, Serbia)*
- P043** Shrinkage behaviour of organic soils in a North German catchment affected by water table drawdown  
*Stephan Gebhardt (Kiel, Germany)*
- P044** Assessing the soil structure dynamics under sustainable agricultural management, by the identification of biogenic and physico-genetic features  
*Denis Piron (Rennes, France)*
- P045** Mineralogical contents of Vertisol type soils from the South of Serbia  
*Sladjana Golubovic (Belgrade/Zemun, Serbia)*
- P046** Some aspects of the soil cover in the eastern part of the Romanian Plain  
*Gherghina Carmen-Alina (Bucharest, Romania)*
- P047** Influence of podzolization soil-forming process on physical and chemical transformation of the quartz grains surface  
*Józef Chojnicki (Warszawa, Poland)*
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- S23 Rhizosphere Processes (Poster Area 1)
- 
- P048** The effect of Rhizobium phaseoli and Plant Growth Promoting Rhizobacteria (PGPR) on Yield and Yield Components in Bean [*Phaseolus vulgaris*] Seeds  
*Mehrab Yadegari (Shahrekord, Iran)*
- P049** Changes in inorganic phosphorus fractions and availability in rhizosphere of rice in P-fertilized soils  
*Nosratollah Najafi (Tabriz, Iran)*
- P050** Screening different wheat genotypes for improving Fe and Zn efficiency  
*MirHassan Rasouli Sadaghiani (Urmia, Iran)*
- P051** Using stable isotope techniques to investigate above- and below-ground carbon transformation processes in model plant-soil ecosystems  
*Juergen Esperschuetz (Neuherberg, Germany)*
- P052** Evaluation of phosphorus efficiency in Iranian cereals in a P-deficient calcareous soil  
*Ebrahim Sepehr (Tehran, Iran)*
- P053** Biocontrol of *Gaeumannomyces graminis* and *Rhizoctonia solani* by *Azotobacter chroococcum*.  
*Reza Ghorbani Nasrabadi (Gorgan, Iran)*
- P054** The impact of PGPR on soybean plants development  
*Marius Stefan (Iasi, Romania)*
- P055** Effects of crops on solute transport in undisturbed soil  
*Sarah Garre (Juelich, Germany)*
- P056** Micro push-pull tests to investigate rhizosphere processes  
*Kajsa Knecht (Zürich, Switzerland)*
- P057** WWTF-project "Mathematics and rhizotechnology. Mathematical methods for upscaling of rhizosphere control mechanisms"  
*Sabine Klepsch (Vienna, Austria)*
- P058** Interaction of phosphate and organic acids in soil: adsorption and desorption dynamics  
*Eva Oburger (Vienna, Austria)*
- P059** Does carbon flow from mycorrhizal fungi stimulate bacterial antibiotic production?  
*Eleni Siasou (Aberdeen, United Kingdom)*
- P060** Characterization of plant-growth promoting diazotrophic bacteria isolated from the rhizosphere of field-grown Chinese cabbage  
*Woo Yim (Chungbuk, Republic of Korea)*
- P061** Effect of *Azospirillum* and *Azotobacter* inoculation with microelements as foliar and soil application on qualitative and quantitative traits of four wheat cultivars after corn planting in Iran  
*Abdollah Bahrani (Ramhormoz, Khuzestan, Iran)*

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## Poster Session 1 (Monday, 25 August, 2008)

- P062** Flavonoids of white lupin participate in Phosphorus mobilization from soil  
*Giancarlo Renella (Florence, Italy)*
- P063** Cellulase activity in rhizosphere of some agronomical plants  
*Ali Akbar Safari Sinegani (Hamadan, Iran)*
- P064** The effect of soil pollution on some rhizospheric biological properties  
*Ali Akbar Safari Sinegani (Hamadan, Iran)*
- P065** Influence of ectomycorrhizae on heavy metal uptake by *Populus tremula*  
*Ingrid Langer (Vienna, Austria)*
- P066** Rhizosphere alkalisation: a major process controlling Cu (bio)availability for durum wheat cropped in a former acidic vineyard soil  
*Matthieu Bravin (Montpellier, France)*
- P067** Comparison of different methodical approaches to evaluate the plant root growth  
*Olga Muter (Riga, Latvia)*
- P068** Fungal denitrification in arable soil  
*Miriam Herold (Dundee, United Kingdom)*
- P069** Magnetic resonance imaging technique to study the distribution of nickel in rhizosphere  
*Ahmad Moradi (Zürich, Switzerland)*
- P070** The interactions of soil microorganisms with plant roots: implications for trace element biofortification  
*Monica Marchetti (Zürich, Switzerland)*
- P071** Soil-dependent, opposite colonization tendency of symbiotic- and food-safety important microbes in the rhizosphere of green-pea at long-term sewage sludge applications  
*Borbala Biró (Budapest, Hungary)*
- P072** Mathematical Modeling of Sorption Competition between Phosphate and Root Exudates  
*Daniel Leitner (Vienna, Austria)*

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### S25 Memory Function of Recent and Paleosoils (Poster Area 1)

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- P073** Memory function of carbonates: use of carbonate pedofeatures for paleoreconstructions  
*Irina Kovda (Moscow, Russian Federation)*
- P074** Subalpine-alpine soil formation during lateglacial period? Results from the archaeological site Ullafelsen in the Fotscher Valley (Tyrol, Austria)  
*Clemens Geitner (Innsbruck, Austria)*
- P075** An approach for studying phytolith profiles of recent soils in different landscape zones of Hungary - Methods and first results  
*Ákos Pető (Gödöllő, Hungary)*
- P076** Quantitative analysis of relief-soil memory  
*Andrey Mitusov (Kiel, Germany)*
- P077** The "Red Outcrop" of Langenlois: soil and rock mineralogy, geochemistry, micromorphology and paleopedology  
*Edith Haslinger (Vienna, Austria)*

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### S27 The Influence of Soil Quality on Human Health and Food Security (Poster Area 1)

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- P078** Evaluation of distance cultivation effects and ethylen spray on fruit and seed production in squash  
*Mehrab Yadegari (Shahrekord, Iran)*
- P079** Antibiotic uptake by plants from soil amended with antibiotic-treated swine slurry  
*Youngho Seo (Chuncheon, Republic of Korea)*
- P080** Distribution and biological availability of Rare Earth Elements in soils of Hesse, Central Germany  
*Mareike Loell (Giessen, Germany)*
- P081** Potential influencing factors on Nitrate accumulation in Rocket salad: Field experiment in Battipaglia, Italy  
*Gorana Rampazzo Todorovic (Vienna, Austria)*
- P082** The Effects Of MSW Compost Applications On The Yield And Heavy Metal Accumulation In Potato Plant (*Solanum Tuberosum* L.)  
*Bulent Topcuoglu (Antalya, Turkey)*
- P083** The Effects Of Sewage Sludge On The Plant Nutrients And Heavy Metal Contents Of Strawberry (*Fragaria X Ananassa Duch*) Plant  
*Mehmet Onal (Antalya, Turkey)*

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### S08 Soil Ecology – Soil as Living Space (Poster Area 2)

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- P084** Effects of arbuscular mycorrhizal fungi on mineral composition and yield of tomato under salinity condition  
*Mohsen Barin (Urmia, Iran)*
- P085** Effects of *Azospirillum*, *Azotobacter*, *Mesorhizobium* and *Pseudomonas* inoculants on growth, yield and nutrient uptake of chickpea (*Cicer arietinum* L.) under field conditions  
*Asad Rokhzadi (Tehran, Iran)*
- P086** Changes of biological properties of soils the South of Russia under influence of electromagnetic fields  
*Tatyana Denisova (Rostov-on-Don, Russian Federation)*
- P087** The role of the biological potential of the microflora in ensuring the soil fertility in natural and anthropic influenced ecosystems  
*Geanina Bireescu (Iasi, Romania)*
- P088** Mountainous Greek soils and status of nutrients in native vegetation and perennial plants  
*Theodore Karyotis (Larissa, Greece)*
- P089** Increasing incubation time enhances cadmium toxicity on soil alkaline phosphatase activity  
*Farshid Nourbakhsh (Isfahan, Iran)*
- P090** Impact of eco-physiologically different earthworms on soil water characteristics  
*Gregor Ernst (Trier, Germany)*
- P091** Organic amendments influence nitrification and denitrification in restored semiarid soils: a genetic and functional approach  
*Alfredo Pérez-de-Mora (Neuherberg, Germany)*

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## Poster Session 1 (Monday, 25 August, 2008)

- P092** Shifts in soil microbial biomass and enzyme activities due to different combined additions of manure and the antibiotic sulfadiazine  
*Sören Thiele-Bruhn (Trier, Germany)*
- P093** Influence of rape oil on the phenanthrene degrading soil community structure in a Haplic Chernozem-a <sup>13</sup>C PLFA study  
*Maren Mellendorf (Vienna, Austria)*
- P094** Effects of Land Use Change on Soil Chemical and Biological Properties in Tropical Mexico  
*Violette Geissen (Villahermosa, Mexico)*
- P095** The effect of the preparation for straw decomposition acceleration and different tillage on soil enzyme activity  
*Borivoj Sarapatka (Olomouc, Czech Republic)*
- P096** Decomposition and diffusion of plant litter products  
*Roland Fuß (Oberschleißheim, Germany)*
- P097** Establishment of ecologically safe concentration of pollution chernozem by ordinary heavy metals (Cr, Cu, Ni, Pb) in modelling experiment  
*Mariya Zharkova (Rostov-on-Don, Russian Federation)*
- P098** Influence of heavy metals (Pb, Cu, Cr, Ni) and petroleum on biological properties of brown deserted soil  
*Natalia Spivakova (Rostov-on-Don, Russian Federation)*
- P099** Changes in soil microbial community structure during repeated vegetable oil applications and different soil water contents using [<sup>13</sup>C] PLFA techniques  
*Andrea Fuhrmann (Vienna, Austria)*
- P100** Seasonal variations in soils enzyme activity  
*Evgeniya Dadenko (Rostov-on-Don, Russian Federation)*
- P101** Influence of magnetic fields on germination of seeds of redish  
*Alexandra Fursova (Rostov-on-Don, Russian Federation)*
- P102** Biological parameters of the hydrogenic soil of Caspian lowland  
*Yulia Kuznetsova (Rostov-on-Don, Russian Federation)*
- P103** The detritosphere as biogeochemical interface for bacterial and fungal degradation of MCPA and phenanthrene  
*Holger Pagel (Stuttgart, Germany)*
- P104** Restoration of a soil grassland microbial community with respect to carbon accumulation and mineralization after previous fertilization  
*Stanislav Maly (Brno, Czech Republic)*
- P105** Effect of mineral fertilization with azote and phosphorous on earthworms (Lumbricidae) in conditions of a mollic preluvosoil from west of Romania  
*Madalina Iordache (Timisoara, Romania)*
- P106** Long term effects of sewage sludge disposal on organisms in an arable soil  
*Sylvia Kratz (Braunschweig, Germany)*
- P107** Biological and biochemical parameters in the rhizosphere at a heavy metal polluted floodplain  
*Tibor Szili-Kovács (Budapest, Hungary)*
- P108** Soil microbial biomass indicators and primary succession on a spoil heap  
*Tibor Szili-Kovács (Budapest, Hungary)*
- P109** Differences in soil yeast communities reflect human impact on forest biotope  
*Andrey Yurkov (Bochum, Germany)*
- P110** The changes of soil reaction after application of fly ash pellets  
*Jan Hrubý (Troubsko, Czech Republic)*
- P111** Functional and genetic diversity of bacterial communities in reclaimed and spontaneously developing mine soils  
*Maria Niklińska (Kraków, Poland)*
- P112** Changes in bacterial communities along a Latosol-Podzol sequence of the upper Amazon basin  
*Marion Bardy (Paris, France)*
- P113** Uses of compost from urban refuse (CUR) to recover the soil biological activity after the afforestation of a burnt forest area.  
*Carlos Rad (Burgos, Spain)*
- P114** Soil ecosystem modelling by means of PCA metasynthetic variable evaluation of metabolomics, faunal diversity, and bioactivity screening  
*Gert Bachmann (Vienna, Austria)*
- P115** Management-induced microbial dynamics in paddy soils of SE-China  
*Thilo Eickhorst (Bremen, Germany)*
- P116** Characterization of soil fungal communities in samples representing different agricultural and forest soils  
*Lelde Grantina (Riga, Latvia)*
- P117** Effect of Imicyafos on nematode and microbial communities in soil  
*Satoko Wada (Naka-cho Koganei Tokyo, Japan)*
- P118** Thiosulfate oxidation pathway and plant growth promotion potential of Proteobacteria and Actinobacteria isolated from crop plants  
*Woo Yim (Chungbuk, Republic of Korea)*
- P119** Contributions to heavy metals removal from contaminated soil using acid and chelating agents  
*Mihaela Ulmanu (Pantelimon, Romania)*
- P120** Characterization of cultivable methylotrophic bacterial communities associated with traditionally cultivated field-grown rice cultivars - population dynamics and potential for plant-growth promotion  
*Tong Sa (Cheongju, Republic of Korea)*
- P121** Isolation, characterization of phosphate solubilizing bacteria from the rhizosphere and their inoculation effect of encapsulated cells on plant growth and nutrient uptake  
*In Hong (Chungbuk, Republic of Korea)*
- P122** Colonization of plant roots and leaves by plant-growth promoting Methylobacterium characterized by confocal and scanning electron microscopy and its persistence in the rhizosphere  
*Tong Sa (Cheongju, Republic of Korea)*
- P123** Potential for nutrient solubilization and plant growth promotion by bacterial strains isolated from crucifer specialist - *Plutella xylostella* (Lepidoptera: plutellidae) gut  
*In Hong (Chungbuk, Republic of Korea)*

## Poster Session 1 (Monday, 25 August, 2008)

- P124** Recovering of fungal wastes: a soil microscale monitoring on ammonia oxidizers  
*Paolo Nannipieri (Firenze, Italy)*
- P125** Linking N<sub>2</sub>O concentrations in different soil depths to denitrification genes abundances under the influence of an elevated atmospheric CO<sub>2</sub> concentration  
*Ellen Kandeler (Stuttgart, Germany)*
- P126** Effect of management regime on the soil enzymatic activities in a mediterranean grassland  
*Olga Gavrichkova (Viterbo, Italy)*
- P127** Abundance and community composition of nitrifiers and denitrifiers in various agricultural soil habitats  
*Katrin Ripka (Seibersdorf, Austria)*
- P128** Examination the properties of soils originating from different hungarian regions  
*Ágnes Zsupos Oláh (Debrecen, Hungary)*
- P129** Influence of earthworms, mycorrhiza and plant roots on soil bacterial metabolic community pattern  
*Roxane Milleret (Neuchâtel, Switzerland)*
- P130** Use of biological parameters for diagnostics of pesticide pollution of the south Russia soils  
*Ekaterina Loseva (Rostov-on-Don, Russian Federation)*
- P131** Enhancement of soil functional stability by organic amendment and possible contribution of aggregated soil structure  
*Koki Toyota (Koganei, Japan)*
- P132** Influence of vegetation on enzyme activity of ordinary chernozem  
*Alexander Larikov (Rostov-on-Don, Russian Federation)*
- P133** In situ unsaturated transport of cow manure-borne E. coli through the soil  
*Mohammad Bagher Farhangi (Hamadan, Iran)*
- P134** N mineralization-nitrification indicators in 50 beech forests (*Fagus sylvatica* L.) in Northeastern France  
*Kasaina Andrianarisoa (Nancy, France)*
- P135** Effect of nitrogen source and period of application on some soil biological properties under common bean  
*Talles Dos SANTOS (Coruña, Spain)*
- P136** Microbial processes in soils at the micro-scale - Finding the needle in the haystack or "Oh activity where art thou?"  
*Anke Herrmann (Newcastle, United Kingdom)*
- P137** Soil biological activity along an elevation gradient in the Chatkal Biosphere Reserve in Uzbekistan  
*Laziza Gafurova (Tashkent, Uzbekistan)*
- P138** Serbian soil uranium contamination and complex strategy for remediation  
*Stojanović Mirjana (Belgrade, Serbia)*
- P139** Investigation of Existence and Probability of Hydrocarbon Pollution in Groundwater around Sari Antibiotic Factory  
*Soheila Ebrahimi (Tehran, Iran)*
- P140** Methodology of rating of anthropogenic influence on soil on the basis of infringement of its ecological functions  
*Sergey Kolesnikov (Rostov-on-Don, Russian Federation)*
- P141** New developments in standardisation of leaching procedures in Germany  
*Ute Kalbe (Berlin, Germany)*
- P142** Mechanochemical transformation of organic pollutants: the catalytic efficiency of phyllo-manganate in catechol and pentachlorophenol degradation  
*Maria Pizzigallo (Bari, Italy)*
- P143** The impact of technogenic iron compounds of industrial dusts on the formation of magnetic and geochemical anomalies of forest soils in south Poland and the border areas (Czech Republic, Germany)  
*Zygmunt Strzyszczyński (Zabrze, Poland)*
- P144** Effects of waterlogging and organic matter on stabilization of Zn in two Zn-spiked soils with different reaction  
*Shahin Oustan (Tabriz, Iran)*
- P145** Ecotoxicological assessment of a vegetable oil based in-situ remediation technique for PAH contaminated soils  
*Berndt-Michael Wilke (Berlin, Germany)*
- P146** Pollution effect by black oil on biological properties of soils  
*Elena Rotina (Rostov-on-Don, Russian Federation)*
- P147** Modelling pollution of the leaching compact chernozem by black oil to establish ecological save concentration  
*Vladimir Gaivoronskiy (Rostov-on-Don, Russian Federation)*
- P148** Cu and other metals mobilization from polluted soil by various chelating agents, and their uptake by maize and Indian mustard in the experiment on induced phytoextraction  
*Anna Karczewska (Wrocław, Poland)*
- P149** Assessing the P retention capacity of a low value soil sealant from an acid mine drainage site  
*Owen Fenton (Wexford, Ireland)*
- P150** Development of model substances for heavy metal contaminated soil constituents  
*Anna Danilova (Stuttgart, Germany)*
- P151** Remediation of a site contaminated with heavy fraction-hydrocarbons using biopiles  
*Jessica López Olvera (Distrito Federal, Mexico)*
- P152** Evaluation of phytotoxicity of soils contaminated with fuel hydrocarbons by using cluster analysis method  
*Daniel Tunega (Vienna, Austria)*
- P153** Chrysene adsorption on a Portuguese loamy sand soil  
*Aline Schneider Teixeira (Braga, Portugal)*
- P154** Heavy metal uptake by grass biomass after amelioration of contaminated acid soil  
*Maya Benkova (Sofia, Bulgaria)*
- 
- S11 Management of Contaminated Soils (1): practical applications (Poster Area 3)
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- P138** Serbian soil uranium contamination and complex strategy for remediation  
*Stojanović Mirjana (Belgrade, Serbia)*

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## Poster Session 1 (Monday, 25 August, 2008)

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- P155** Mercury contamination of soil, stream and overbank sediments associated with cinnabar mineralization (Trsce, Croatia)  
*Helena Bakic (Zagreb, Croatia)*
- P156** Field Experiments of Induced Phytoextraction - Case Study in Hungary  
*Viktória Cser (Szeged, Hungary)*
- P157** Immobilization of heavy metals in soil using nanoparticles produced from zeolitic tuff  
*Ayoub Ghrair (Stuttgart, Germany)*
- P158** Influence of experimental boundary conditions on the release of PAHs during column percolation tests  
*Wolfgang Berger (Berlin, Germany)*
- P159** Effects of N and P on degradation of crude oil in two soils  
*Syafuddin Syafruddin (Vienna, Austria)*
- P160** Heavy Metals in Hortisols of the Holy Mountain Athos, Greece  
*Peter Trueby (Freiburg, Germany)*
- P161** Monitoring of heavy metals contents (Cu, Zn, Pb and Ni) in the surrounding soils of thermal power plants in Romania  
*Loredana Popescu (Bucharest, Romania)*
- P162** Effects of methill-parathion, carborfuran and lambbacyhalotrina insecticides on soil biological activity  
*Duilio Torres (Barquisimeto, Venezuela)*
- P163** Effects of Oxifluorfen, Fluaxifop and Pendimentalin Herbicides on soil biological activity  
*Nectali Rodriguez (Coro, Venezuela)*
- P164** Immobilization of As(V) in aqueous solutions by zerovalent irons  
*Jae E. Yang (Chuncheon, Republic of Korea)*
- P165** The estimation of the pollution degree in the vicinity of the industrial area near Bucharest  
*Teodor Velea (Pantelimon, Romania)*
- P166** Gold mining in Apolobamba (Bolivia) and heavy metals pollution: Diagnosis according to different legislations  
*Tania Terán-Mita (Cartagena (Murcia), Spain)*
- P167** Effect of salinity on the plant germination in the context of soil toxicity  
*Olga Muter (Riga, Latvia)*
- P168** Biogeochemical approaches to estimating permissible inputs of acidifying compounds and heavy metals in the urban ecosystems  
*Irina Pripulina (Pushchino, Russian Federation)*
- P169** A model of pollutant transport along the land surface  
*Olga Mitusova (Kiel, Germany)*
- P170** Effect of a large copper ore tailings impoundment on heavy metal concentrations in soils  
*Cezary Kabala (Wroclaw, Poland)*
- P171** An approach to diminish ecological risks of soil contamination by a liquid pollutant  
*Andrey Mitusov (Kiel, Germany)*
- P172** Phytoremediation of polluted soils: interactions between roots and heavy metals  
*Arnaud Gauthier (Villeneuve d'Ascq, France)*
- P173** Dynamic of metals (Ni and Cr) in elution waters from ultramafics ores columns, implications in the revegetalisation of nickel mining sites  
*Sophie Raous (Nancy, France)*
- P174** Spatial distribution and vertical gradient of Cu and Zn near a valley rim in grey forest soil  
*Peter Shary (Pushino, Russian Federation)*
- P175** Vertical migration of heavy metals in soils contaminated by sewage sludge  
*Tatiana Bolysheva (Moscow, Russian Federation)*
- P176** Speciation and phytoavailability of copper from vineyard soil as influenced by bacterial siderophores  
*Jean-Yves Cornu (Colmar, France)*
- P177** Heavy metal contamination and health risk assessment in soils from Portman bay  
*Carmen Perez-Sirvent (Murcia, Spain)*
- P178** Biodegradable product using for enhancing the bioremediation efficiency of petroleum hydrocarbons polluted soils  
*Anca-Rovena Lacatusu (Bucharest, Romania)*

## Poster Session 2 (Tuesday, August 26, 2008)

### S01 Soil Organic Matter (Poster Area 1)

- P179** Tillage-induced carbon inputs in soil in rice-wheat cropping system - Farmer's participatory studies  
*Nanak Pasricha (Dundahera, Gurgaon, India)*
- P180** Physical protection of soil organic matter in aggregates of forest soils with mechanized harvesting and site preparation techniques  
*Nahia Gartzia Bengoetxea (Derio, Spain)*
- P181** Oxidability of soil organic matter of forest soils with potassium permanganate. Application to the fractionation of organic carbon forms  
*Marisa Ibargoitia (Derio, Spain)*
- P182** Study of the relationship between oxidability of soil organic matter of forest soils with potassium permanganate and main functional groups  
*Marisa L. Ibargoitia (Bizkaia, Spain)*
- P183** Influence of compost on morphological and chemical properties of sandy soils, Egypt  
*Monier Wahba (Cairo, Egypt)*
- P184** Soil Organic Matter and Aggregate stability as affected by land-use and soil management  
*Hermine Dameni (Beijing, China)*
- P185** Comparison of composting and vermicomposting processes during decomposition of solid wastes  
*Kazem Hashemimajid (Ardebil, Iran)*
- P186** Changes in organic carbon distribution in different sizes of soil aggregates in semi-arid regions of Iran  
*Mostafa Emadi (Shiraz, Iran)*
- P187** Spatial variability of different soil organic carbon pools in a high-elevation Norway Spruce forest  
*Sandra Spielvogel (Freising, Germany)*
- P188** Organic compounds related to soil hydrophobicity in total extracts from accelerated solvent extraction (ASE)  
*Irena Atanassova (Swansea, United Kingdom)*
- P189** Soil organic matter stabilization and land-use change in tropical ecosystems  
*Joseph Kimetu (Ithaca, NY United States)*
- P190** Effects of tillage and N fertilization on soil respiration in a mediterranean semiarid agroecosystem  
*Francisco Joaquín Morell-Soler (Lleida, Spain)*
- P191** Soil aggregation as affected by tillage in mediterranean semiarid agroecosystems  
*Jorge Álvaro-Fuentes (Lleida, Spain)*
- P192** <sup>1</sup>H-NMR and <sup>13</sup>C-NMR spectroscopy of chernozem soil humic acid fractionated by tandem SEC-PAGE  
*Oleg Trubetskoj (Pushchino, Russian Federation)*
- P193** Tandem ultrafiltration - PAG electrophoresis as a tool for isolation of soil humic acid fluorescence species  
*Olga Trubetskaya (Pushchino, Russian Federation)*
- P194** The role of photo-degradation in the global carbon cycle  
*Bente Foereid (Aberdeen, United Kingdom)*
- P195** Impact of applying different tillage and residue management systems after 16 years on soil carbon using  $\delta^{13}\text{C}$  abundance  
*Mariela Fuentes (Texcoco, Mexico)*
- P196** Use of NIRS technology for the determination of  $\delta^{13}\text{C}$  in soils with 16 years of application of different tillage and residue management systems  
*Inmaculada González-Martin (Salamanca, Spain)*
- P197** Vermicomposting influences solid wastes decomposition kinetics in soils  
*Nasim Reshadi-nezhad (Isfahan, Iran)*
- P198** Elemental composition and molecular weights of humic acids physically independent components  
*Evgeny Milanovskiy (Moscow, Russian Federation)*
- P199** Cropping system effects on carbohydrate content in two soils of central Iran  
*Mohammad Hajabbasi (Isfahan, Iran)*
- P200** Study of organic matter effects on physico-chemical changes of different Soils  
*Akbar Forghani (Rasht, Iran)*
- P201** Determination of soil organic carbon using near-infrared spectroscopy  
*Mima Todorova (Stara Zagora, Bulgaria)*
- P202** Managing soil organic carbon in irish agricultural systems  
*Marta Dondini (Dublin, Ireland)*
- P203** Impact of litter quality on mineralization processes in top soils of South Ecuador  
*Karin Potthast (Tharandt, Germany)*
- P204** Concentrations of carbon, nitrogen, phosphorus and sulphur and activities of some hydrolytic enzymes in a Luvisol fertilized with farmyard manure and mineral nitrogen  
*Jan Koper (Bydgoszcz, Poland)*
- P205** The fate of phenolic constituents during peat humification processes  
*Teodoro Miano (Bari, Italy)*
- P206** Influence of the peat humic fraction on Br and Hg cycles  
*Teodoro Miano (Bari, Italy)*
- P207** Soil organic matter content in top-soils of Germany  
*Jens Utermann (Hannover, Germany)*
- P208** Quantification and characterisation of aerial and underground litter of Miscanthus, a perennial energy crop: ability to soil biodegradation  
*Norbert Amougou (REIMS, France)*
- P209** Humification degree in Chernozems determined by fluorescence spectroscopy  
*Lubica Pospisilova (Brno, Czech Republic)*
- P210** Influence of different types of organic matter on the soils reducing conditions  
*Franco Ajmone-Marsan (Grugliasco, Italy)*
- P211** Estimation of DOC fluxes under Miscanthus and Lolium pasture; effects of land use change  
*Niamh Smyth (Dublin, Ireland)*
- P212** Fluorogenic assay of N-acetylglucosaminidase and its spatio-temporal variability in the litter layer of coniferous forest  
*Carolin Penne (Hannover, Germany)*
- P213** Rendzins humus conditions of the Black Sea coast  
*Mihail Kutrovski (Rostov-on-Don, Russian Federation)*

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## Poster Session 2 (Tuesday, August 26, 2008)

- P214** Content of total carbon and nitrogen in fractions of humus after long-term fertilization  
*Jolanta Janowiak (Bydgoszcz, Poland)*
- P215** Soil organic matter stability and radionuclides availability to plants  
*Anastasiya Tulina (Pushchino, Russian Federation)*
- P216** Characterization of Soil Organic Matter (SOM) from Brazilian Umbrisol by <sup>13</sup>C NMR spectroscopy and oxidative degradation  
*Marta Velasco-Molina (Santiago de Compostela, Spain)*
- P217** <sup>15</sup>N-DNA Stable isotope probing and active soil microbial community in plant residue decomposition process  
*Mingrelia Espana (Stuttgart, Germany)*
- P218** Fertilizer type and rate: effects on labile carbon and nitrogen pools in a long-term trial on a sandy Cambisol  
*Felix Heitkamp (University of Kassel, Germany)*
- P219** Soil organic carbon and nitrogen dynamics in soils amended with organic residues  
*Vasileios Antoniadis (Orestiada, Greece)*
- P220** Decomposition of tropical tree litters: Impact of litter quality on C mineralization kinetics and soil organic matter characteristics  
*Isabelle Bertrand (Reims, France)*
- P221** The Role of Organic Matter in Improving the Physico-chemical and Biological Properties of Agricultural Soils  
*Soheila Ebrahimi (Tehran, Iran)*
- P222** Mineralization rates of SOC in forest Andosols of the Canary Islands  
*Antonio Rodríguez Rodríguez (La Laguna, Spain)*
- P223** Effect of temperature and depth on peat soil ability for methane oxidation  
*Anna Szafranek-Nakonieczna (Lublin, Poland)*
- P224** Effect of soil tillage systems on soil organic matter (SOM). Evaluation with traditional and advanced analytical techniques  
*Rosa Francaviglia (Roma, Italy)*
- P225** Influence of long organic and mineral fertilization on soil fertility  
*Rossitza Mitovska (Sofia, Bulgaria)*
- P226** Advanced solutions for non-invasive spectroscopic techniques for the characterization of soil organic matter (SOM) quality - Investigation on the lipid fraction composition in soils from the Grand-Duchy of Luxembourg  
*Christophe Hissler (Belvaux, Luxembourg)*
- P227** The effect of climatic conditions and whole tree harvesting on the properties and stability of soil organic matter, application of pressurized hot water extraction  
*Hannu Ilvesniemi (Vantaa, Finland)*
- P228** Potential of organic products from the peri-urban area of Antananarivo (Madagascar) for crop production in a low fertility soil  
*Hélène Fonteneau (Cergy, France)*
- P229** Dynamics of soil aggregation and stability in soils under organic manure application and conservation tillage  
*Nicolas Bottinelli (Rennes, France)*
- P230** Soil organic matter storage in tropical soils under no-tillage systems (Madagascar)  
*Martial Bernoux (Montpellier, France)*
- P231** Isolation of humic acids from SOM by use of soil microorganisms  
*Alexey Stepanov (Moscow, Russian Federation)*
- P232** Soluble organic carbon in solutions of various soils inhibits phosphatase activity ; quantification and identification of inhibitors using fluorescence spectroscopy  
*Siobhán Staunton (Montpellier, France)*
- P233** Soil humic substances and microbial communities as functions of parent material, slope exposure and stand age in spruce forests  
*Giuseppe Concheri (Legnaro, Italy)*
- P234** On the possibility of a low-temperature LOI method to an assessment of soil organic matter  
*Karel Fiala (Rapotin, Czech Republic)*
- P235** Changes of content of soil organic matter of chernozems in Middle Moravia region  
*Vítězslav Vlček (Brno, Czech Republic)*
- P236** Evaluation of <sup>1</sup>H NMR relaxometry for the assessment of SOM swelling in soil samples  
*Fabian Jaeger (Koblenz, Germany)*
- P237** Does the Rothamsted Carbon Model (RothC 26.3) properly predict soil carbon turnover and storage in arable soils under Pannonian climate conditions?  
*Gorana Rampazzo Todorovic (Vienna, Austria)*
- P238** Estimation of the lignin content in plants and soils - literature review and experimental approaches  
*Samuel Abiven (Zürich, Switzerland)*
- P239** Soil Organic Carbon Fractions and Aggregate Stability in Carbonated and No Carbonated Soils in Tunisia  
*Abdelhakim Bouajila (El Manar II, Tunisia)*
- P240** Effects of soil organic matter conformation on the formation and release of bound residues of xenobiotics  
*Anastasia Shchegolikhina (Bochum, Germany)*
- P241** Composition and distribution of physical organic matter fractions in steppe soil profiles (Calcic Chernozems) as influenced by grazing intensity  
*Angelika Kölbl (Freising, Germany)*
- P242** Soil carbon dynamics in a 200-years forest chronosequence  
*Mickael Hedde (Versailles, France)*
- P243** Interactions of colloidal silver with soil and dissolved organic matter  
*Stephan Walch (Koblenz, Germany)*
- P244** Antioxidant capacity of soils as related to the chemical composition of their organic matter and net N mineralization rates  
*Sabine Heumann (Hannover, Germany)*
- P245** Dynamics of the evolution of carbon in the soil and of CO<sub>2</sub> emissions, under two cropping systems  
*Rosa Carbonell (Córdoba, Spain)*

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## Poster Session 2 (Tuesday, August 26, 2008)

- P246** Long-term land use and landscape effects on aggregate stability and carbon fractionation  
*Nadia Doaei (Hamedan, Iran)*
- P247** Contribution of microbial biomass carbon to the formation of soil organic matter  
*Anja Miltner (Leipzig, Germany)*
- P248** Does animal manure fertilization enhance DOM-leaching and co-transport of veterinary antibiotics? A risk assessment for Luxembourg  
*Martina Arenz (Esch-sur-Alzette, Luxembourg)*
- P249** Role of humic and fulvic acids toward the mobility of PTE (Pb, As, Zn) from mining contaminated soils  
*Marilyne Soubrand (Iimoges, France)*
- P250** Mineralization of microbial carbon and nitrogen in soils  
*Lorraine Murtagh (Stirling, United Kingdom)*
- P251** Ectomycorrhizal roots and litter decomposition as part of the forest soil carbon pool  
*Tine Grebenc (Ljubljana, Slovenia)*
- P252** Effect of organic substrates based on sugarcane phlegm and composted coffee pulp over the coffee vegetative growth initial phase  
*Miguel Arizaleta (Cabudare, Venezuela)*
- P253** Arable (C3) to Miscanthus grassland (C4); derivation of carbon within soil fractions  
*Darren McCabe (Harpenden, Hertfordshire, United Kingdom)*
- P254** Quantification and characterisation of charred materials in two recently burned pine forest soils in Tuscany, Central Italy  
*Caterina Nocentini (Firenze, Italy)*
- P255** The dynamic of organic matter in hortic antrosols conditioned with polymeric materials  
*Feodor Filipov (Iasi, Romania)*
- P256** The effect of intrinsic soil properties on satiability and instability indices of aggregates  
*M Nikpour (Hamadan, Iran)*
- P257** Organic matter stabilisation as affected by land use  
*Chiara Cerli (Grugliasco, Italy)*
- P258** Effect of burning and addition of municipal waste compost on carbon forms of a forest soil  
*Francisco Lafuente (Palencia, Spain)*
- P259** Large-scale validation of the Roth-C model for Japanese paddy soils  
*Mayuko Jomura (Tsukuba, Ibaraki, Japan)*
- P260** A system approach to investigation of waterstable soil aggregates and comprising physical components thereof  
*Nadezhda Vassilieva (Moscow, Russian Federation)*
- P261** Relationship between soil density and soil organic matter in first and second rotation areas with Pinus taeda L. in Rio Grande do Sul-Brazil  
*Eduardo Londero (Santa Maria, Brazil)*
- P262** Litter mass loss and nutritional variation, during the decomposition process, from Eucalyptus urophylla x E. globulus maidenii in Rio Grande do Sul - Brazil  
*Mirian Valente (Santa Maria, Brazil)*
- P263** Soil organic matter under no-tillage and minimum tillage at the field scale in tropical humid climate  
*Mariléia Furtado (La Coruña, Spain)*
- P264** Soil organic matter under long-term cereals growing  
*Tamara Drysova (Brno, Czech Republic)*
- P265** Chemical characterisation of soils using near-infrared reflectance spectroscopy  
*Joanna Cloy (Edinburgh, United Kingdom)*
- P266** The soil organic matter content related to soil tillage, culture and field slope  
*Petru Gus (Cluj-Napoca, Romania)*
- P267** The role of compost use in food security improvement and climate change mitigation: the case of small holder farmers in Ethiopia  
*Hailu Tedla (Addis Ababa, Ethiopia)*
- P268** Pyrogenic transformation of soil cover and dynamics of carbon pools in open forests of North-East Eurasia  
*Nikita Mergelov (Moscow, Russian Federation)*
- P269** Changes in dissolved organic carbon (DOC) in upland catchments in Scotland  
*Caroline Morrison (Stirling, United Kingdom)*
- P270** Carbon sequestration by soil aggregates under different management practices  
*Mamadou Traoré (Bobo Dioulasso, Burkina Faso)*
- P271** Agricultural valorisation of de-inking paper sludge as component of substrates  
*Gabriel Gascó (Madrid, Spain)*
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- S13 Buffering Function of Soils (Poster Area 2)
- 
- P272** Geochemistry of major and trace elements in tropical serpentine soils  
*Zeng Hseu (Pingtung, Taiwan)*
- P273** Enhanced in situ degradation of chemicals in soils  
*Reiner Schroll (Neuherberg, Germany)*
- P274** A composting process model coupling organic matter and organic micropollutants dynamic  
*Patricia Garnier (Thiverval Grignon, France)*
- P275** Dynamic (redox) interfaces in soil - Carbon turnover in microbial food webs and impact on soil organic matter  
*Esther Cyrus (Leipzig, Germany)*
- P276** Buffering function of soils in prevention of ground water contamination by pesticides  
*Radka Kodesova (Prague, Czech Republic)*
- P277** Do buffer methods predict lime requirements for Greek soils?  
*Pantelis Barouchas (Messolonghi, Greece)*
- P278** Vapor phase sorption on soil organic matter components: Influence of moisture and type of organic contaminant  
*Daniel Tunega (Vienna, Austria)*
- P279** The influence of soil reaction change after application of fly ashes from fluid coal combustion on the humus content  
*Barbora Badalíková (Toubsko, Czech Republic)*

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## Poster Session 2 (Tuesday, August 26, 2008)

- P280** Changes in PO<sub>4</sub><sup>3-</sup> and NO<sub>3</sub><sup>-</sup> concentrations in sulfide mine wastes flooded during 17 weeks with eutrophicated water  
*María González Alcaraz (Cartagena (Murcia), Spain)*
- P281** Compost amendments affects on retention and leaching of isoproturon in soil  
*Valérie Pot (Thiverval-Grignon, France)*
- P282** Buffering capacity of drainage canals and phytoremediation potential for agro-pollutants  
*Fotini Stamati (Chania, Greece)*
- P283** Thermodynamical properties of benchmark hydrogen-bonded systems using molecular dynamics and Monte Carlo methods  
*Hasan Pačalić (Vienna, Austria)*
- P284** Effects of pH, Ca- and SO<sub>4</sub>-concentrations on surface charge properties of goethite and hematite - consequences for sorption properties  
*Jochen Walsch (Hannover, Germany)*
- P285** Cylinder experiment with *Lepidium sativum* to assess the bioavailability of arsenic in contaminated alluvial soils  
*Juliane Ackermann (Halle, Germany)*
- P286** Sorption of organic compounds in soil: modifications by their molecular characteristics and the soil solution  
*Ursula Haas (Seibersdorf, Austria)*
- P287** Speciation of zinc in solutions extracted from different Zn-polluted substrates  
*Eleonore Couder (Louvain-la-Neuve, Belgium)*
- P288** Assessing the effects of preferential flow in grassland soils  
*Gaelene Kramers (Wexford, Ireland)*
- P289** Effect of citric acid on the amounts of Mn and Co species desorbed from soils developed on two different serpentinite rocks  
*Vassilios Tsatiris (Athens, Greece)*
- P290** Impact of hexachlorocyclohexane in agricultural soils of Galicia, NW of Spain  
*Roberto Calvelo Pereira (Santiago de Compostela, Spain)*
- P291** Effects of grass species diversity on soil nitrate leaching  
*Anthony Mazzocca (Halifax, NS Canada)*
- P292** Effect of soil properties on bioavailability and phytotoxicity of nickel and copper in soils  
*Zlata Tonkova (Moscow, Russian Federation)*
- P293** Rainfall pH comparison in two different locations in south Brazil  
*Marcio Navroski (Santa Maria, Brazil)*
- P294** Assessment of nickel availability in natural and serpentine soils from the North-east of Portugal  
*Sheila Alves (Lisboa, Portugal)*
- P295** Geochemical and microbiological controls on the fate of depleted U in soil  
*Dote Stone (Cranfield, United Kingdom)*
- P296** Chemical and biological responses as induced by a biomimetic catalyst for enhancing carbon sequestration in soil: a microcosm experiment  
*Antonio Gelsomino (Reggio Calabria, Italy)*
- S21B** Soils and Societies in History (Poster Area 2)
- P297** A Study of Soil Formation in Colluvial Layers  
*Iraj Emadodin (Kiel, Germany)*
- P298** Economic, political and social factors in changes in the Czech agricultural landscape (1970-1989)  
*Nicholas Orsillo (Brno, Czech Republic)*
- P299** Aliphatic hydrocarbons (n-alkanes) as molecular markers in soils for prehistoric biomass burning  
*Eileen Eckmeier (Zürich, Switzerland)*
- S21A** Society's Demands for and Perceptions of Soil Conservation (Poster Area 2)
- P300** Landslides and soil distribution, soil conservation and the risk of landslide remobilization. Geba-Werei water divide, Tigray, Ethiopia  
*Jan Moeyersons (Tervuren, Belgium)*
- P301** Soil evaluation and evaluation of areas in landscape planning as a contribution to reduce soil sealing and improve sustainable land use planning  
*Friedrich Rueck (Osnabrueck, Germany)*
- S26** Pedometrics and Digital Soil Mapping (Poster Area 2)
- P302** A precision farming application - spatial distribution in an onion field in El-Saff district, Giza governorate, Egypt  
*Khaled Darwish (Cairo, Egypt)*
- P303** Comparison of spatial variability methods for mapping soil properties in Arsanjan plain, southern Iran  
*Mostafa Emadi (Shiraz, Iran)*
- P304** Spatial prediction of surface soil properties in Arsanjan plain using terrain and remote sensing data  
*Mostafa Emadi (Shiraz, Iran)*
- P305** Estimation of the soil particle size distribution based on the electrical conductivity of the soil  
*Stefan Hinck (Osnabrück, Germany)*
- P306** Ground tests and ENVISAT images interpretation for SMOS validation  
*Mateusz Lukowski (Lublin, Poland)*
- P307** Digital mapping of trace metal concentrations in regional top soils in the Swiss Plateau  
*Kirsten Rehbein (Zürich, Switzerland)*
- P308** Spatial variability of soil texture and wetness: effects on thermal conductivity  
*Boguslaw Usowicz (Lublin, Poland)*
- P309** Comparison of techniques used in GIS for DEM generation from contours  
*Stanislav Bek (Prague, Czech Republic)*
- P310** Application of multi objective regression models to map the resilience characteristics of soil  
*Paul Hallett (Dundee, United Kingdom)*

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## Poster Session 2 (Tuesday, August 26, 2008)

- P311** Digital soil mapping in forest reserves: towards the development of forest site mapping  
*Gábor Illés (Budapest, Hungary)*
- P312** Different approaches to spatial prediction of soil properties in mountainous areas  
*Radim Vasat (Prague, Czech Republic)*
- P313** Multi-layer soil description for crop management by electric conductivity mapping  
*Horst Domsch (Potsdam, Germany)*
- P314** Feasibility of bioindication approach to soil spatial variability  
*Cristiano Ballabio (Milano, Italy)*
- P315** Chernozems data set analysis: implications for a detailed soil allocation model  
*Lubos Boruvka (Prague, Czech Republic)*
- P316** Digital soil mapping at regional level using the knowledge derivate from existing soil maps at medium and large scales  
*Blandine Lemerrier (Rennes, France)*
- P317** Characterisation of the spatial variability of bare soil respiration from plot to field scale  
*Michael Herbst (Jülich, Germany)*
- P318** Spatial variability of available phosphorus at the one-hectare scale in Misiones, Argentine  
*Jorge Paz-Ferreiro (Coruña, Spain)*
- P319** Soil reaction variability under forest and arable land  
*Vit Penizek (Praha, Czech Republic)*
- P320** High resolution soil sensing of multiline transects in the Wetterau region (Hesse/Germany)  
*Till Reckling (Giessen, Germany)*
- P321** Mapping spatial variability of soil texture in precision agriculture  
*Vojtech Lukas (Brno, Czech Republic)*
- P322** Geophysical auxiliary data and soil water content spatial prediction: the multi-collocated co-kriging approach  
*Giuliano Langella (Portici, Italy)*
- P328** Use of the <sup>137</sup>Cs technique under tropical conditions: Estimation of medium-term soil redistribution rates in Ibadan, Nigeria  
*Birte Junge (Ibadan, Nigeria)*
- P329** Soil and plant responses to biosolids application in an abandoned agricultural land  
*Ingrid Walter (Madrid, Spain)*
- P330** Quantitative analysis of gully erosion and sediment yield in the Busmange Chay basin to manage it (Iran- Azerbaijan)  
*Mousa Abedini (Ardabil, Iran)*
- P331** Soil erosion by water in Aleppo pine stands (*Pinus halepensis* Mill.) after fire  
*Lukrecija Butorac (Split, Croatia)*
- P332** The effect of wildfires on soil erosion and runoff under mediterranean conditions  
*Sid Theocharopoulos (Athens, Greece)*
- P333** The experience of the monitoring of erosion processes on cultivated soils of the Republic of Belarus  
*Andrei Chernysh (Minsk, Belarus)*
- P334** Digital erosion mapping and quantification of mass movement in tropical areas, Sierra Norte de Oaxaca, Mexico  
*Abel Ibañez-Huerta (Mexico D. F., Mexico)*
- P335** Flocculation behaviour of soil suspension in relation to the polyacrylamide application, shaking time and temperature  
*Mari Rätty (Helsinki, Finland)*
- P336** Spatial rill initiation and rill development on terraced agricultural fields in Angereb Sub-watershed, Ethiopia  
*Gizaw Desta Gessesse (Debre Birhan, Ethiopia)*
- P337** Effects of palm-leaf geotextile mats on the conservation of temperate agricultural soils in the United Kingdom  
*Ranjan Bhattacharyya (Wolverhampton, United Kingdom)*
- P338** Mapping soil erodibility using geostatistics and GIS techniques in Baleghli Chay watershed, Ardabil, Iran  
*Abazar Esmali Ouri (Ardabil, Iran)*
- P339** Modeling and validation of rainfall erosion index in Lake Urmia basin  
*Alidad Karami (Shiraz, Iran)*
- P340** Rill and interrill erosion produced by a single-storm event in an olive grove in central Spain  
*Ramon Bienes (Madrid, Spain)*
- P341** Interrill erosion in a bare soil. An experience of 12 years  
*Ramón Bienes (Madrid, Spain)*
- P342** Ecologo-genetic peculiarities of soils of Ukrainian Carpathians and their protection  
*Taras Yamelynets (Lviv, Ukraine)*
- P343** Loss of total and organic C in a wheat crop under direct drilling and conventional tillage  
*Rafaela Ordóñez (Córdoba, Spain)*
- P344** Assesment of the soil nutrients losses by sheet water erosion from Bulgarian agricultural land, value of the appropriate anti-erosion practises  
*Diana Nekova (Sofia, Bulgaria)*

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### S03 Soil Erosion (Poster Area 3)

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- P323** Investigation of evaluation sediments in natural forest under management in 14 years period, Caspian forest, north of Iran  
*Seyed Armin Hashemi (Lahijan, Iran)*
- P324** Erosive degradation of a soil cover of the Azerbaijan Republic  
*Magerram Babayev (Baku, Azerbaijan)*
- P325** Analyses of relations between variable factors and water erosion changes (case study: Yamchi dam drainage basin, Ardabil, Iran)  
*Abazar Esmali Ouri (Ardabil, Iran)*
- P326** A decision support tool for soil erosion assessment in Switzerland  
*Volker Prasuhn (Zürich, Switzerland)*
- P327** Quantification of erosion process through plot measurements and radioisotopic methods (<sup>137</sup>Cs, <sup>210</sup>Pb)  
*Lionel Mabit (Seibersdorf, Austria)*

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## Poster Session 2 (Tuesday, August 26, 2008)

- P345** Tillage erosion in young moraine landscapes of Germany  
*Monika Frielinghaus (Müncheberg, Germany)*
- P346** Risk assessment methods of soil erosion by water in the European Union  
*Luis Recatala (Albal, Valencia, Spain)*
- P347** Soil aggregate stability under two rainfall modes  
*Aïcha Rochdi (Settat, Morocco)*
- P348** Agricultural measures for flood protection and erosion control - a comparison of different methods for visualisation and application  
*Norbert Billen (Stuttgart, Germany)*
- P349** Validation and further development of the EROSION 3D model for simulation of high water effecting surface runoff  
*Marcus Schindewolf (Freiberg, Germany)*
- P350** The role of the soil physical and chemical properties in the erosion processes dynamics. Case study: Tutovei Hills, Eastern Romania  
*Iulian Catalin Stanga (Iasi, Romania)*
- P351** Statistic and simulation approaches to evaluation of erosion and nutrient content in runoff water in Italy hills agroecosystems  
*Maria Cristina Velardo (Milano, Italy)*
- P352** Estimating soil erosion rates for Hungary - an application of the PESERA model  
*Istvan Waltner (Godollo, Hungary)*
- P353** Relationship between P surface richness and soluble P concentration in runoff in plots under conventional tillage  
*Antonio Rodriguez-Liza (Seville, Spain)*
- P354** Soil erosion in Albania  
*Lushaj Sherif (Tirana, Albania)*
- P355** Pilot object for soil erosion protection land use in South-East Bulgaria  
*A Lazarov (Sofia, Bulgaria)*
- P356** Soil erosion, carbon and nutrient elements leaching control by reduced tillage on chromic luvisol  
*Elka Tcvetkova (Sofia, Bulgaria)*
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- S16 Soil Indicators (Poster Area 3)
- 
- P357** Enzymatic activity of forest soils and their productivity  
*Ewa Błońska (Cracow, Poland)*
- P358** The ecological characterization through indicators of quality of the soil resources in forestry and agroecosystems from North-Eastern Romanian  
*Lazar Bireescu (Iasi, Romania)*
- P359** Soil quality evaluation indicators  
*Virginijus Feiza (Dotnuva, Lithuania)*
- P360** Prediction of soil physical quality index by pedo-transfer functions in some saline and saline-sodic soils of Iran  
*Hojat Emami (Karaj, Iran)*
- P361** N/S ratios in Ribwort Plantain (*Plantago lanceolata*) as indicator plant  
*Zeljka Zgorelec (Zagreb, Croatia)*
- P362** Estimation of Ecological Condition of Soils  
*Elena Pivovarova (Barnaul, Russian Federation)*
- P363** Comparison of soil respiration, humic substances quality and optical indexes in Eutric Cambisol  
*Lubica Pospisilova (Brno, Czech Republic)*
- P364** Potentially mineralizable nitrogen under different tillage systems  
*Diana Martin (Madrid, Spain)*
- P365** Inorganic polyphosphates as an indicator of soil fungal activity  
*Mikhail Makarov (Moscow, Russian Federation)*
- P366** A field spade test for visual scoring of soil structure  
*Lars Munkholm (Tjele, Denmark)*
- P367** Phytoindication of soil conditions of mountain beech sites in Slovenia  
*Mihej Urbančič (Ljubljana, Slovenia)*
- P368** Soil physical quality in the Tutovei Hills region (Romania)  
*Ionut Vasiliniuc (Iasi, Romania)*
- P369** Evaluating soil suitability for vineyard in Jerez zone, Southern of Spain - Preliminary analysis of soil quality indicators  
*Maria Anaya (Seville, Spain)*
- P370** Rendzin biological activity of different natural zones of the Nothwest Caucasus  
*Artem Polyakov (Rostov-on-Don, Russian Federation)*
- P371** Indicators and indices integrated in Agenda 21 for the assessment of desertification processes in Mediterranean environments  
*Luis Recatalá (Albal, Valencia, Spain)*
- P372** Magnetic fingerprint for the source area of an alluvial Vertisol in southern Mali  
*Andreas Gehring (Zürich, Switzerland)*
- P373** How to manage and analyse a large biodiversity data set: the case of the regional "RMQS BioDiv" experience  
*Guénola Pérès (Paimpont, France)*
- P374** Assessment of soil friability by the volume-dependence method in selected Hamadan soils  
*Homa Bahmanzadeh (Hamadan, Iran)*
- P375** Soil Degradation as a Catastrophic Event  
*Alexander Klevzov (Sofia, Bulgaria)*
- P376** Application of fractal theory to describe soil aggregate stability for different land uses  
*Mohammad Hajabbasi (Isfahan, Iran)*

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## Poster Session 3 (Thursday, August 28, 2008)

### S28 Soil Fertility and Environment (Poster Area 1)

- P377** Evaluation of Sorghum Response to Different Sources and Rates of Phosphorus Fertilizers  
*Camilia El-Dewiny (Cairo, Egypt)*
- P378** Impact of Nitrogen Fertilization on Iron Uptak by Maize Growing in Calcareous Soil  
*Safaa Mahmoud (Giza, Egypt)*
- P379** Kinetics of Some Micronutrients Desorption by DTPA from Calcareous Soils  
*Adel Reyhanitabar (Tabriz, Iran)*
- P380** Effect of phosphorus rates and methods of zinc application on maize yield and its components  
*Hanan Siam (Giza, Egypt)*
- P381** Influence of saline water irrigation and compost plant residues on yield and nutrient uptake by fodder beet grown on a sandy soil  
*Ahmed Taalab (Giza, Egypt)*
- P382** Effects of zinc and irrigation intervals on yield and component yield of sunflower  
*Mohamad Rahimi (yasouj, Iran)*
- P383** Study of density and activity of native VA mycorrhizal related with soil phosphorus in some farmlands of Marand  
*Parisa Aizadeh Okuei (Marand, Iran)*
- P384** Effects of nitrogen, phosphorus and boron on some growing Characteristics of polianthus tuberosa L.  
*Shahram Baghban Sirus (Marand, Iran)*
- P385** Textile industry wastes, a real threat to agricultural environment in Egypt  
*Wafaa Abd El-Rahim (Cairo, Egypt)*
- P386** Optimum Rate of Top Dressing of Nitrogen Fertilizer on Red Pepper by Ground-Based Remote Sensing  
*Soon-Dal Hong (Cheongju, Chungbuk, Republic of Korea)*
- P387** Effect of FeSO<sub>4</sub>/Ca(OH)<sub>2</sub> addition on phosphate exchangeability and iron forms in an acid soil submitted to different redox conditions  
*Emmanuel Frossard (Zürich, Switzerland)*
- P388** Effects of Zn and Fe on yield and yield components of sunflower  
*Moahmad Rahimi (yasouj, Iran)*
- P389** GIS Evaluation of nitrates concentration in groundwater. A case study in Central Italy  
*Chiara Piccini (Rome, Italy)*
- P390** Olive mills solid waste soil application in olive crops: Effect on herbicide fate  
*Lucia Cox (Seville, Spain)*
- P391** Thermal properties of some Bulgarian soils  
*Vesselina Ilieva (Sofia, Bulgaria)*
- P392** Loads and fate of fertilizer derived uranium in agricultural soils  
*Sylvia Kratz (Braunschweig, Germany)*
- P393** Profile distribution of enzyme activities in relation to some physico-chemical parameters of intensively used soils of the Wielkopolska Lake District (Poland)  
*Anna Piotrowska (Bydgoszcz, Poland)*
- P394** Dehydrogenase and cellulase activities in the arable-humic horizon of an acidic soil  
*Jacek Dlugosz (Bydgoszcz, Poland)*
- P395** The effect of different fertilization systems on content of some micro and macro nutrients in soil and seed of oilseed rape (*Brassica napus* L.)  
*Hossein Sabahi (Tehran, Iran)*
- P396** Comparison of effect of azola and azola compost on nitrogen mineralization of paddy soil  
*Pirouz Azizi (Rasht, Iran)*
- P397** Remote sensing data for small rivers basins soil and vegetation mantle assessment  
*Tatiana Trifonova (Moscow, Russian Federation)*
- P398** Use of NIRS technology with a fibre-optic probe for the determination of total carbon, total nitrogen, pH and yields in soils after 16 years of applying different tillage and residue management systems  
*José Hernández Hierro (Salamanca, Spain)*
- P399** The effect of zinc and boron interaction on the concentration and uptale of phosphorus and potassium in corn grain  
*Farshid Aref (Fars province, Iran)*
- P400** Search of ecological ways preservation and increasing of soil fertility  
*Olga Klymenko (Yalta, Ukraine)*
- P401** Grouping of common soil varieties by cluster analysis on the basis of data for main soils' properties and their thermal characteristics  
*Vesselina Ilieva (Sofia, Bulgaria)*
- P402** Sequential Extraction of Different Forms of Zinc in Several Soils of Guilan Province  
*Akbar Forghani (Rasht, Iran)*
- P403** Leaching of some heavy metals into drainage water in Croatia  
*Ivan Simunic (Zagreb, Croatia)*
- P404** The selenium content in soil and red clover (*Trifolium pratense* L.) affected by organic fertilisation  
*Katarzyna Borowska (Bydgoszcz, Poland)*
- P405** Use of phosphorus applied with animal manure to organically and conventionally managed soils  
*Astrid Oberson (Lindau, Switzerland)*
- P406** Development of a sewage sludge ash based phosphate fertilizer (PHOSKRAFT): characterization of ashes and potential for phosphorus-fertilization  
*Simone Nanzer (Lindau, Switzerland)*
- P407** Synthetic siderite is effective to prevent iron deficiency  
*Inmaculada Sánchez-Alcalá (Córdoba, Spain)*
- P408** Screening tests of epiBS  
*Liudmila Voronina (Moscow, Russian Federation)*
- P409** The agronomic value of composed sludge. 1- Effect of compost combined with N, P and K application on yield, nutrient and heavy metal concentrations of wheat in newly reclaimed soil  
*Mahmoud Hozien Mahmoud (Cairo, Egypt)*

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## Poster Session 3 (Thursday, August 28, 2008)

- P410** Distribution of Forms of Copper and their Relationship with Soil Properties in Agricultural Soils of Central Greece  
*Evangelia Golia (Nea Ionia Magnissias, Greece)*
- P411** Study on the Effects of Macro and Micro Nutrients on Yield and Quality of Sesame (*Sesamum indicum* L.)  
*Farshid Aref (Firouz Abad, Iran)*
- P412** Aftereffect duration of residual amounts of phosphorus fertilizer  
*Vitali Lapa (Minsk, Belarus)*
- P413** Towards a sustainable agriculture in Cuba  
*Olegario Muñoz Ugarte (Havana, Cuba)*
- P414** Geochemical atlas of the Republic of Croatia  
*Lidija Galović (Zagreb, Croatia)*
- P415** Using pedological information in establishing conservation measures concerning soil fertility and environmental protection in south-western Romania  
*Dorin Tarau (Timisoara, Romania)*
- P416** Content of phosphorus in soil under corn grown in monoculture  
*Barbara Murawska (Bydgoszcz, Poland)*
- P417** Fertilization with nitrogen and sulphur as a factor determining sulphur richness in soil in different types of soil  
*Ewa Szychaj-Fabisiak (Bydgoszcz, Poland)*
- P418** Effect of organic matter and copper on chemical forms of copper and copper concentration in corn in two calcareous soils  
*Azadeh Esmaili (Tehran, Iran)*
- P419** Rock phosphate availability to oats plants in two inoculated with bacteria soils  
*Kostadinka Nedyalkova (Sofia, Bulgaria)*
- P420** Nutrient balance in organic rice farming area in Korea  
*Geunhwan Gil (Iksan, Republic of Korea)*
- P421** Soil physicochemical properties of reclaimed land in southwestern coast in Korea  
*Kyeongbo Lee (Iksan, Republic of Korea)*
- P422** Quantifying Bioactive P Pools in Fertilized and Manure-amended Soils by Purified Phytic-Acid High Affinity Aspergillus Phosphohydrolases  
*Thanh Dao (Beltsville, MD United States)*
- P423** Distribution of polycyclic aromatic hydrocarbons in urban, suburban and arable areas of the Vojvodina Province, Serbia  
*Natasa Djuricic-Mladenovic (Novi Sad, Serbia)*
- P424** Interaction effect of organic, inorganic and biofertilizers on the growth and yield of wheat plants in newly reclaimed soil  
*Medhat Tawfik (Dokki, Egypt)*
- P425** Effects of low-molecular-weight organic acids on desorption Kinetics of Copper from soils  
*Marjan Padidar (Hamadan, Iran)*
- P426** Microbial transformation of diphenylarsinic acid in Japanese agricultural soils  
*Yuji Maejima (Tsukuba, Japan)*
- P427** Intercropping has a high potential to reduce environmental impacts of agriculture  
*Valentini Pappa (Edinburgh, United Kingdom)*
- P428** Soil Sustainability Indicators under Rice-Winter Cover Crops Cropping Systems in No-tillage Paddy Field  
*Young Lee (Jinju, Republic of Korea)*
- P429** Kinetics of Zinc Desorption from Calcareous Soils  
*Marjan Padidar (Hamadan, Iran)*
- P430** Contributing areas to P-losses from grassland - hydrological risk areas  
*Claudia Hahn (Zürich, Switzerland)*
- P431** Evaluation of iron and manganese speciation in poor forest soils using the sequential extraction method  
*Barbara Walna (Mosina, Poland)*
- P432** Clay mineralogy and soil potassium status in some Alfisols of Golestan Province, Iran  
*Sofia Zaer Nomali (Gorgan, Iran)*
- P433** Fertility status and hazardous and harmful residues in the soils of Srem  
*Ljiljana Nesic (Novi Sad, Serbia)*
- P434** Ammonium acetate and ammonium chloride comparative soil K extraction potential  
*Orlando Rodríguez-Rodríguez (Barquisimeto, Venezuela)*
- P435** Evolution of soil acidity in the preluvosoil from North-Western part of Romania in long term fertilizers field experiments  
*Gheorghe Ciobanu (Oradea, Romania)*
- P436** Pedological factor's role in reconstruction measures establishing in Arad County, Romania soils  
*Vlad Horia (Arad, Romania)*
- P437** Thermodynamic parameters of zinc sorption in some calcareous soils  
*Alireza Hosseinpur (Shahrekord, Iran)*
- P438** Effect of cover crops as green manure on nutrient balance and potato yield in organic crop rotation  
*Totka Mitova-Trifonova (Sofia, Bulgaria)*
- P439** Risk assessment for nitrogen contamination of groundwater under Haplic Chernozems  
*Dimitranka Stoicheva (Sofia, Bulgaria)*
- P440** CEC and K critical level determined by ammonium acetate and ammonium chloride  
*Orlando Rodríguez-Rodríguez (Barquisimeto, Venezuela)*
- P441** Evaluation of chosen characteristics of luvic chernozem topsoil in south part of the Hornomoravsky uval  
*Martin Brtnický (Brno, Czech Republic)*
- P442** Effect of organic materials on rice development and soil properties in an acid saline paddy soil  
*Roland Poss (Montpellier, France)*
- P443** Soil nitrate content evolution with leguminous cover crops in organic farming  
*Cristina Alcántara (Córdoba, Spain)*
- P444** Soil weathering stage of volcanic ash soils directly impacts the silicon status of banana (*Musa* spp.)  
*Bruno Delvaux (Louvain-la-Neuve, Belgium)*
- P445** Contributions to the knowledge of soil pollution with fluorine  
*Stefan Ispas (Targoviste, Romania)*

## Poster Session 3 (Thursday, August 28, 2008)

- P446** Assessment of organic micro-pollutant speciation in composts using <sup>14</sup>C-labelled molecules  
*Gwenaëlle Lashermes (Thiverval-Grignon, France)*
- P447** Changes of some chemical parameters of cambisol influenced by twenty years use in wine growing  
*Natalija Perovic (Podgorica, Montenegro)*
- P448** Leaching of nitrates and base cations under Fluvisols in different crops growing and nitrogen rates  
*Dimitranka Stoicheva (Sofia, Bulgaria)*
- P449** Soil amendment with activated charcoal can reduce aromatic arsenicals uptake by rice from soil contaminated by diphenylarsinic acid  
*Tomohito Arao (Tsukuba, Japan)*
- P450** Scaling-up nutrient balances from plot to village level under small-holder settlement schemes in sub-humid Zimbabwe  
*Juan Cobo Borrero (Stuttgart, Germany)*
- P451** Application of microelements in plant growing of Belarus  
*Mihail Rak (Minsk, Belarus)*
- P452** An easy incubation method for measuring nitrogen mineralization from soils and organic residues  
*Tânia Teixeira (Lisboa, Portugal)*
- P453** Enhancement of earthworm biomass and maize production.  
*Esperanza Huerta (Villahermosa, Mexico)*
- P454** Phytoremediation of soils contaminated by liquid beef cattle manure  
*Nadejda Fless (Moscow, Russian Federation)*
- P455** Doses and Ammonium acetate and ammonium chloride comparative soil Ca extraction potential  
*Orlando Rodríguez-Rodríguez (Barquisimeto, Venezuela)*
- P456** Comparison of colorimetric and ICP determination of phosphorus extracted by the Melich-3 procedure in plots with organic and mineral fertilization  
*Eva Vidal Vázquez (Coruña, Spain)*
- P457** The role of plant growth regulators in cadmium toxicity for plants  
*Ekaterina Morachevskaya (Moscow, Russian Federation)*
- P458** The small-scale pattern of nitrate concentration in seepage water below the main rooting zone in an N saturated homogeneous mature spruce forest is regulated by net N mineralization in the organic layer  
*Boris Matejek (Garmisch-Partenkirchen, Germany)*
- P459** Influence of mineral and organic fertilizer inputs on soil nutrient fluxes in eucalypt ecosystems  
*Valerie Maquere (Nancy, France)*
- P460** Effect of nitrogen, phosphorus and potassium fertilization on the growth and development of pedunculate oak seedlings (*Quercus robur* L.)  
*Ivan Seletković (Jastrebarsko, Croatia)*
- P461** Mineral and organic contribution to nutrient pool in black anthropogenic soils from the African Great Lakes Region  
*Séverine Delstanche (Louvain-la-Neuve, Belgium)*
- P462** Proportion ammonia / nitrate in nursery plants Hartón Plantain (*Musa AAB* subgroup Plantain cv. Hartón).  
*Orlando Rodríguez-Rodríguez (Barquisimeto, Venezuela)*
- P463** Comparative Effect of Two Different Types of Phosphate on Cadmium Phytoextractability in the Field Soil Affected by Mine Activity  
*Pil Joo Kim (Jinju, Republic of Korea)*
- P464** Nitrogen and carbon release from organic residues by extraction with KCl: effect of temperature and acidification  
*João Coutinho (Vila Real, Portugal)*
- P465** Micronutrient levels in natural stands of European oaks in northwest of Iberian Peninsula: a comparative study  
*A Rodríguez-Campos (Lugo, Spain)*
- P466** Comparison between the chemical properties and the macronutrient content of natural stands of *Quercus petraea* Liebl. and *Q. pyrenaica* Willd. soils in Galicia, NW Spain  
*A Rodríguez-Campos (Lugo, Spain)*
- P467** Effect of fertilization treatments and water regime on Fodder beet productivity  
*E Abdallah (Giza, Egypt)*
- 
- S04 Soil Compaction (Poster Area 2)
- 
- P468** Oxygen Diffusion Rate in Vertisol  
*Rayna Dilkova (Sofia, Bulgaria)*
- P469** Effect of agricultural activity on soil deformation on Estonian grasslands  
*Endla Reintam (Tartu, Estonia)*
- P470** The effects of conservation tillage on soil physical and biological properties in maize monoculture  
*Peter Laszlo (Budapest, Hungary)*
- P471** Mechanical models for the dynamic of the cone penetrometer  
*Petru Cardei (Bucharest, Romania)*
- P472** Assessing effect of plant residuals on reduction and prevention of soil compaction in afforested parks  
*Soheila Ebrahimi (Tehran, Iran)*
- P473** Influence of different nutrients on rheological parameters with special regard to potassium  
*Doerthe Holthusen (Kiel, Germany)*
- P474** The effect of compaction and reduced tillage on the macro- and microscale gas transport in a loess soil  
*Asko Simojoki (Helsinki, Finland)*
- P475** Soil compaction in vineyards of Slovakia  
*Maria Mrazikova (Nitra, Slovakia)*
- P476** Defining soil compaction stages by the 'Packungsdichte' method  
*Tamás Bucsi (Gödöllő, Hungary)*
- P477** How do conventional and conservation tillage practices with organic manure application affect the seasonal variation of topsoil hydraulic conductivity?  
*Nicolas Bottinelli (Rennes, France)*
- P478** Soil mechanical and soil hydraulic parameters on a recently established agricultural recultivation site in Eastern Germany  
*Julia Krümmelbein (Cottbus, Germany)*

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## Poster Session 3 (Thursday, August 28, 2008)

- P479** Patterns of soil structure in spruce stands in south-western Germany - natural and anthropogenic causes  
*Klaus von Wilpert (Freiburg, Germany)*
- P480** Influence of mountain pasture landuse on soil structure and its related physical parameters  
*Nicola Rampazzo (Vienna, Austria)*
- P481** Effects of different compaction impacts and varying subsequent soil management practices on soil microbiological parameters  
*Hans-Rudolf Oberholzer (Zürich, Switzerland)*
- P482** The strength of plant roots and their impact to soil shear strength in disturbed and undisturbed grassland soils  
*Katrin Trükmann (Tartu, Estonia)*
- P483** Monitoring root growth alteration caused by heavy forest machinery  
*Boštjan Mali (Ljubljana, Slovenia)*
- P484** Mechanical behaviour of a clay soil under different buffer zone management practices in Finland  
*Mari Rätty (Helsinki, Finland)*
- P485** The effect of aggregate for minibeds forming on physical and mechanical properties on soil  
*Ondrej Ponican (Novi Sad, Serbia)*
- P486** In situ characterization of the structural heterogeneity of a compacted tilled soil by electrical and mechanical methods  
*Maud Seger (Aubièrre, France)*
- P487** Tillage and crop rotation influence over soil physical properties  
*Marius Gheres (Cluj Napoca, Romania)*
- P488** Impact of soil tillage practices on the spatial organisation of earthworm biostructures  
*Denis Piron (Rennes, France)*
- 
- S18 Urban and Anthropogenic Soils (Poster Area 2)
- 
- P489** Phytoremediation of lead in contaminated urban residential soils of Portland, Maine, U.S.A.  
*Samantha Langley (Gorham, ME United States)*
- P490** Mobility and REE fractionation pattern in natural and mining soils in relation to parent material  
*Massimo Angelone (Rome, Italy)*
- P491** Heavy metal pollution assessment in a Romanian mining area  
*Erika Levei (Cluj-Napoca, Romania)*
- P492** Influence of compost application and mycorrhization on urban soil characteristics and growth of bigroot geranium (*Geranium macrorrhizum* L.)  
*Joanna Nowak (Skierniewice, Poland)*
- P493** Levels of Lead and in Roadside Soil Samples of an Agricultural Area of Central Greece  
*Evangelia Golia (Nea Ionia Magnissias, Greece)*
- P494** The Use of Enrichment Factor for the evaluation of Zinc Pollution in Agricultural and Industrial Soils of Central Greece  
*Evangelia Golia (Nea Ionia Magnissias, Greece)*
- P495** Constructozems of golf courses as new soil differences  
*Sergey Gorbov (Rostov-on-Don, Russian Federation)*
- P496** Soil PAHs contaminants analysis using fluorescence spectroscopy  
*Gabriela Pavelescu (Magurele, Romania)*
- P497** Heavy metal content in soil near sedimentation ponds, North-Western Romania  
*Gabriela Pavelescu (Magurele, Romania)*
- P498** Development of improved urban soil evaluation methods  
*Jürgen Schneider (Hannover, Germany)*
- P499** Classification of soils in Szeged based on anthropogenic diagnostic properties  
*Irén Puskás (Szeged, Hungary)*
- P500** Microbial properties of sandy mine soils afforested with different tree species  
*Marcin Chodak (Krakow, Poland)*
- P501** Impact of the urbanization on soil conditions  
*Marek Degorski (Warszawa, Poland)*
- P502** Evaluation of metals mobility and phytoavailability from mine tailing technosoils (Massif Central - France)  
*Nastasia Wanat (Limoges, France)*
- P503** Testing of engineered nanoparticles colloidal stability for mobility prognosis  
*Stephanie Ottofuelling (Vienna, Austria)*
- P504** Heavy metals in urban soils of Belgrade, Serbia  
*Negovan Ivankovic (Belgrade, Serbia)*
- P505** Source identification of polycyclic aromatic hydrocarbons (PAHs) in river bank soils  
*Thilo Hofmann (Vienna, Austria)*
- P506** The distribution and migration of cadmium and lead in horticultural soils conditioned with polymeric materials  
*Dumitru Bulgariu (Iasi, Romania)*
- P507** Spatial variation of surface soil pollution in Qingdao, China  
*Stefan Norra (Karlsruhe, Germany)*
- P508** Acidity parameters variation along a permanent preservation area in a rural-urban stream with different degradation kinds and levels in Santa Maria, RS  
*Denise Szymczak (Santa Maria, Brazil)*
- P509** Evaluation and Improving of Urban Soils Fertility State  
*Radu Lacatusu (Bucharest, Romania)*

## Poster Session 3 (Thursday, August 28, 2008)

### S24 Soils and GMOs (Poster Area 2)

- P510** Fate of Cry1Ab-protein from Bt-maize (MON810) during silage and subsequent co-digestion in a biogas plant, and consequences for agricultural use of the remaining biogas manure  
*Ulrike Schoebinger (Universität Trier, Germany)*
- P511** Mineralizable and total soil C and total N in surface soil were not affected by 7 years of continuously planted Bt corn  
*Alexandra Kravchenko (East Lansing, MI United States)*

### S10 Advances in Soil Monitoring (Poster Area 3)

- P512** Uncertainties in pesticide monitoring using suction cups: Evidences from numerical simulations  
*Lutz Weihermüller (Jülich, Germany)*
- P513** Long-Term Monitoring of Soil Physical and Biological Properties  
*Peter Schwab (Zürich, Switzerland)*
- P514** Application of laser diffraction method for determination of grain size distribution of soils on example of brown soil  
*Magdalena Ryzak (Lublin, Poland)*
- P515** Selection of optical parameters in grain size distribution measurement of brown soil by laser diffraction method  
*Andrzej Bieganski (Lublin, Poland)*
- P516** Background concentrations of trace elements in the groundwater recharge of northern Germany  
*Wilhelmus Duijnvisveld (Hannover, Germany)*
- P517** The soil quality monitoring network for French soils (RMQS): state of progress and first results  
*Claudy Jolivet (Olivet, France)*
- P518** Long-term soil monitoring in the federal state of Schleswig-Holstein (Northern Germany)  
*Rainer Nergler (Kiel, Germany)*
- P519** Development of laboratory analytical procedures to determine thermal properties in soils  
*Carlos Rubio (Cervera, Spain)*
- P520** The French soil sample archiving, memory of our soils  
*Line Boulonne (Olivet, France)*
- P521** Seasonal alterations of soil properties and nutrients concentrations in a small Mediterranean river catchment  
*Yorgos Amaxidis (Anavissos - Athens, Greece)*
- P522** Frequency dependent dielectric loss as the indicator of bulk soil electrical conductivity  
*Andrzej Wilczek (Lublin, Poland)*
- P523** Assessment of metals' phytoavailability from various soils: conventional extraction procedures versus DGT technique  
*Jessica Peyrical (Limoges, France)*
- P524** DONECOSOL: A software tool to manage biodiversity's data  
*Guénola Pérès (Paimpont, France)*

- P525** Procedures and protocol for soil biodiversity monitoring: "RMQS-Biodiv", a French Pilot area experience  
*Guénola Pérès (Paimpont, France)*
- P526** Seasonal behavior of soil solutions in a Mediterranean forest  
*Stefano Carnicelli (Firenze, Italy)*
- P527** Distribution of radionuclides in agricultural soil samples of southeast Belgrade, Serbia  
*Ivana Vukašinović (Belgrade, Serbia)*
- P528** Influence of in-situ storage conditions on the composition of soil solutions from Norway spruce and Douglas fir forest floors  
*Hugues Titeux (Louvain-la-Neuve, Belgium)*
- P529** Development of a Decision Support System (DSS) for generating reliable hazard quantifications of mudslides  
*Friederike Meyer (Neubiberg, Germany)*

### S17 Land Use and Soil Protection (Poster Area 3)

- P530** Influence of soil usage and soil tillage system on soil properties  
*Teodor Rusu (Cluj-Napoca, Romania)*
- P531** Changes in soil chemical properties under modern and traditional farming system at Khagrachari, Chittagong Hill Tracts, Bangladesh  
*Shampa Biswas (Vienna, Austria)*
- P532** Evaluation of the meliorative effect of waste products in soils damaged by coal mining  
*Rayna Dilkova (Sofia, Bulgaria)*
- P533** Heavy metals and selected physicochemical properties of Rendzic Leptosols of the Ponidzie Region (southern Poland)  
*Anna Swiercz (Pedagogical University of Kielce, Poland)*
- P534** Land use planning as an instrument of soil conservation in reclamation areas (a case study of Belarusian Polesye)  
*Valentin Yatsukhno (Minsk, Belarus)*
- P535** The role of soil components in association of heavy metals in agricultural soils  
*Halina Dąbkowska-Naskret (Bydgoszcz, Poland)*
- P536** Soil loss in Slovenia due to the permanent land use changes in the last 15 years  
*Blaz Repe (Ljubljana, Slovenia)*
- P537** Soil stability affected by different land use  
*Ewa Czyz (Pulawy, Poland)*
- P538** Development of a GIS-based model for the assessment of regional element balances of agricultural soils  
*Charis Theodorika (Zürich, Switzerland)*
- P539** Building military facilities in earthquake zones on collapse prone loess soils in Afghanistan  
*Claas Meier (Neubiberg, Germany)*
- P540** Soil cover evolution in the Cortina d'Ampezzo valley (Italy) between geomorphological fragility and sustainable management  
*Claudio Bini (Venice, Italy)*

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## Poster Session 3 (Thursday, August 28, 2008)

- P541** Compaction of loamy soils due to tillage and chemicals operations in vineyards and its effect on soil oxygen content in Bozcaada (SW Turkey)  
*Sakine Özpınar (Çanakkale, Turkey)*
- P542** Maize (*Zea mays* L.) response to tillage systems after winter vetch on a clay loam soil in Western Turkey  
*Sakine Özpınar (Çanakkale, Turkey)*
- P543** Validation of an assessment tool for heavy metals in soils using site-specific heavy metal balances  
*Dorit Zoerner (Giessen, Germany)*
- P544** Numerical analysis of water and soil properties and environmental potentials of touristy Ormieh lake basin and shorelines for land planning (North West of Iran)  
*Mousa Abedini (Ardabil, Iran)*
- P545** Schatkamer Aarde, a tool for improving integration of soil in spatial planning  
*Hanneke van den Ancker (Ede, Netherlands)*
- P546** Low input agricultural systems: Intercropping's role in resource use efficiency  
*Valentini Pappa (Edinburgh, United Kingdom)*
- P547** The challenge of sustaining soils: An integrated perspective  
*Verena Winiwarter (Vienna, Austria)*
- P548** Case study on arsenic enrichment in agricultural soil and food chain in an arsenic affected area in Inner Mongolia, China  
*Harald Neidhardt (Karlsruhe, Germany)*
- P549** Qualitative and quantitative soil protection in the Czech republic in connection with proposed Soil Framework Directive  
*Milan Sáňka (Brno, Czech Republic)*
- P550** Reducing agri-environmental problems through conservation agriculture  
*Emilio Gonzalez-Sanchez (Cordoba, Spain)*
- P551** Land evaluation from the natural resources and cadastral classification viewpoint  
*Tomaz Prus (Ljubljana, Slovenia)*
- P552** Historical view on land-use changes in the Dragonja river valley  
*Marina Pintar (Ljubljana, Slovenia)*
- P553** The influence of the climate conditions from Oradea, Romania on the biodegradation of oil on a polluted soil  
*Cornel Sabau (Oradea, Romania)*
- P554** The effects of types and amounts of organic matter on soil aggregate stability  
*Alidad Karami (Shiraz, Iran)*
- P555** Effectiveness of soil conservation measures on soil degradation - A survey in selected case studies in the EU  
*Nicole Heyn (Müncheberg, Germany)*
- P556** Effect of herbicide on the chlorophyll content and growth of herbaceous and broadleaf Weeds  
*Hung-Yu Lai (Changhua, Taiwan)*
- P557** A method for the assessment of soil functions based on the German agricultural land evaluation (Bodenschätzung)  
*Sven Gönster (Bochum, Germany)*
- P558** Temporal impact of soil conservation on crop production and soil fertility in the highlands of NE Thailand  
*Wanwisa Pansak (Stuttgart, Germany)*
- P559** Biological mechanisms involved in stabilization of sandy soils of the machair  
*Maja Thorsen (Dundee, United Kingdom)*
- P560** Updating land evaluation data using remote sensing and expert knowledge integrated in a GIS  
*Orr Gvili (Beer Sheva, Israel)*
- P561** Soil cover changes under the influence of land use in the hilly area of Eastern Romania  
*Lilian Niacsu (Iasi, Romania)*
- P562** Soils, a natural resource between sustainability and commercial efficiency  
*Tomaz Prus (Ljubljana, Slovenia)*
- P563** Ecological valuation of soils effected by Norilsk Nickel smelter  
*Sergey Kudryashov (Moscow, Russian Federation)*
- P564** Land classification in Ciuc Depression (Romania) according to the natural limitations and anthropic degradations  
*Ion Rasnoveanu (Bucharest, Romania)*
- P565** Effects of plant species richness and functional group diversity on soil stability  
*Guénola Pérès (Paimpont, France)*
- P566** Climate impact on soil: causes, effects  
*Marinela Gheres (Cluj Napoca, Romania)*
- P567** Conservation tillage for vegetable growing  
*Irina Calciu (Bucharest, Romania)*
- P568** Evaluation of soil microbial indices along the revegetation chronosequence in grassland soils on the Loess Plateau, Northwest China  
*Shaoshan An (Yangling, China)*

## Poster Session 4 (Friday, August 29, 2008)

### S02 Soils and Climate Change (Poster Area 1)

- P569** Approach to predict soil fertility alteration due to global warming during the 21st century  
*Iouri Nikolskii-Gavrilov (Montecillo, Mexico)*
- P570** SOC dynamics in a long-term water-logged single rice cropping system  
*WonKyo Jung (Suwon, Republic of Korea)*
- P571** Causes and extent of fluctuations of the gaseous carbon pool in a deeply aerated soil  
*Helmer Schack-Kirchner (Freiburg, Germany)*
- P572** Ancient and recent soils of reserve "Arcaim" in steppe area, Russia  
*Valentina Prikhodko (Pushchino Moscow region, Russian Federation)*
- P573** Contribution of the geogenic sources to the methane budget in soil, in hydrocarbon-prone areas  
*Liana Spulber (Cluj-Napoca, Romania)*
- P574** Open-N: An open source code for modeling nitrous oxide emission from upland and water-logged soils of a spruce forest ecosystem  
*Marc Lamers (Hohenheim, Germany)*
- P575** Continuous Measurements of Soil CO<sub>2</sub> Profiles under *Miscanthus x giganteus*  
*Fabrizio Albanito (Dublin, Ireland)*
- P576** Impact of tropospheric ozone on soil mesofauna in the rhizosphere of field-grown winter wheat  
*Stefan Schrader (Braunschweig, Germany)*
- P577** Climate changes and its potential impact on soil organic carbon stock of selected Slovak agriculture farms  
*Gabriela Barancikova (Presov, Slovakia)*
- P578** Climate and maize yields in Plovdiv region I. under non irrigated conditions  
*Georgi Stoimenov (Sofia, Bulgaria)*
- P579** Climate and maize yields in Plovdiv region under irrigation  
*Georgi Stoimenov (Sofia, Bulgaria)*
- P580** How does tillage affect carbon dioxide emissions from agricultural soils?  
*Gerlinde Trümper (Vienna, Austria)*
- P581** Environmental changes and the transformation of soils in case of lowland areas, SE Hungary  
*Gyöngyi Barna (Szeged, Hungary)*
- P582** The effects of global changes on the transformation of soils and landscape in the Great Hungarian Plain  
*János Rakonczai (Szeged, Hungary)*
- P583** Carbon budget of peat lands of Southwest-Germany  
*Andrea Ramirez (Stuttgart, Germany)*
- P584** Climate Change - A Challenge for Saxon Soils?  
*Stephanie Hurst (Dresden, Germany)*
- P585** Effects of tillage system on soil microbiological activity of agriculturally used soil in Austria  
*Undrakh-Od Baatar (Vienna, Austria)*
- P586** Impact of modified temperature and precipitation regime on soil microorganisms and carbon cycling in arable soils  
*Christian Poll (Stuttgart, Germany)*
- P587** Influence of meteorological factors during vegetation period on the yield and evapotranspiration of irrigated and non irrigated grain corn  
*Alexander Matev (Plovdiv, Bulgaria)*
- P588** Measurement and analysis of N<sub>2</sub>O and SF<sub>6</sub> diffusion coefficients in soils as a function of the spatial scale  
*Jürgen Böttcher (Hannover, Germany)*
- P589** An evaluation of the impact of climate change on soil water balance in a catchment in north-eastern Germany - a case study  
*Martin Wegehenkel (Muencheberg, Germany)*
- P590** The late Pleistocene paleosols in the centre of the Russian Plain  
*Svetlana Sycheva (Moscow, Russian Federation)*
- P591** CO<sub>2</sub> emission rate in Mediterranean ultisols with different degradation degrees  
*Rafael Espejo (Madrid, Spain)*
- P592** Influence of tillage systems on soil organic matter content - results of long-term research in Baden-Wuerttemberg  
*Erich Unterseher (Karlsruhe, Germany)*
- P593** DOC dynamics in a boreal riparian soil - Implication of a changing winter climate  
*Mahsa Haei (Umeå, Sweden)*
- P594** Soil hydrological response under extreme climate situations  
*María Concepción Ramos (Lleida, Spain)*
- P595** Changes in organic matter and microbial community along a soil climosequence in the Austrian Limestone Alps  
*Ika Djukic (Vienna, Austria)*
- P596** GIS derived susceptibility of forest soils to drought: example from Slovenia  
*Milan Kopal (Ljubljana, Slovenia)*
- P597** Soil carbon sink and land use change in the Emilia-Romagna Region (Italy)  
*Rosa Marchetti (San Cesario, Italy)*
- P598** Adaptation of carbon mineralization to climate change in southern and northern areas of the boreal forest zone  
*Pekka Vanhala (Helsinki, Finland)*
- P599** A measuring device for the simultaneous direct determination of N<sub>2</sub> and N<sub>2</sub>O emission from soil cores  
*Michael Pfeffer (Vienna, Austria)*
- P600** Effect of N fertilization and tree girdling on soil greenhouse gas emissions  
*Barbara Kitzler (Vienna, Austria)*
- P601** Effect of the composition and degree of stabilization of organic amendments on the enhancement of soil organic C  
*Nuria Serramiá (Murcia, Spain)*
- P602** Rainfall chemical characteristics in native Grass compared to Seasonal Deciduous Forest in Itaara-RS, Brazil  
*Mauro Schumacher (Santa Maria, Brazil)*

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## Poster Session 4 (Friday, August 29, 2008)

- P603** Seasonal effects on microbiological methane cycling in UK forest soils.  
*Theresa Hudson (Exeter, United Kingdom)*
- P604** Recent organic matter accumulation related to nitrogen deposition and climatic factors in four Scottish ombrotrophic peat bogs  
*Joanna Cloy (Edinburgh, United Kingdom)*
- P605** Impacts of climate changes on rhodic ferrasols and lixisols of Burkina Faso  
*Roger Kissou (Ouagadougou, Burkina Faso)*
- P606** Modelling impacts on soil organic carbon stocks and crop yields under climate change using EPIC - a case study analysis in Slovakia  
*Juraj Balkovič (Bratislava, Slovakia)*
- P607** Changes of microbial activity along altitudinal transects in the volcanic mountains of Central Slovakia  
*Erika Gömöryová (Zvolen, Slovakia)*
- 
- S07 Soil and Water – Practical Applications (Poster Area 1)
- 
- P608** Approach for an improved assessment of irrigation indirect long-term impacts on soil fertility  
*Oktiabrina Bakhlaeva-Egorova (Montecillo, Mexico)*
- P609** The physical and mathematical analysis of irrigation water optimization in arid conditions  
*Akif Gerayzade (Baku, Azerbaijan)*
- P610** Biological activity of water in agriculture problems  
*Nemat Mamedov (Baku, Azerbaijan)*
- P611** Changes in soil properties due to different soil and water conservation methods in a non-terraced sloping oil palm plantation  
*Christopher Teh (Serdang, Malaysia)*
- P612** Ecological-hydrological evaluation of Humic Gleysols drained by plastic and ceramic drainage during 20 years  
*Ivan Kovalev (Moscow, Russian Federation)*
- P613** Advances in Determining Soil Water Potential Using an Engineered Porous Ceramic and Dielectric Permittivity  
*Bryan Wacker (Pullman, WA United States)*
- P614** Groundwater quality and threshold values for irrigation in the River Basin of Pinios, Greece  
*Theodore Karyotis (Larissa, Greece)*
- P615** Dryland maize yields and water use efficiency in response totillage and nutrient management practices in China  
*Xiaobin Wang (Beijing, China)*
- P616** Characterization of the soil water content profile along a frequency domain reflectometry probe using advanced forward and inverse modelling techniques  
*Arlène Besson (Louvain-la-Neuve, Belgium)*
- P617** Model for evaluating maximum nitrate leaching fluxes to free aquifers for prevention groundwater pollution at catchment level according with Nitrate Directive  
*Mihail Dumitru (Bucharest, Romania)*
- P618** Preferential flow of water and solutes along macropores under tilled and untilled loess soil - A multiple tracing field study  
*Mandy Brak (Leipzig/ Hohenheim, Germany)*
- P619** Infra-red thermometer application for soil and plant water regimes  
*Georgi Stoimenov (Sofia, Bulgaria)*
- P620** Impact of stony soils on soil water retention and hydraulic conductivity - comparison between field measurements and lab experiments  
*Nicole Emerstorfer (Vienna, Austria)*
- P621** Thermal water exploitation and it's environmental risk in Hungary  
*Kitti Balog (Szeged, Hungary)*
- P622** Constructing a soil hydraulic conductivity map using pedotransfer functions and GIS (application to Horoiata basin, Romania)  
*Ionut Vasiliniuc (Iasi, Romania)*
- P623** P movement to the Missisquoi Bay: Quebec interventions at different scales  
*Marc Laverdière (Quebec, QC Canada)*
- P624** Changes of soybean and wheat yields - I.Under non irrigated conditions  
*Vera Tsenova (Sofia, Bulgaria)*
- P625** Changes of soybean and wheat yields - II.Under optimal irrigation  
*Vera Tsenova (Sofia, Bulgaria)*
- P626** Field and laboratory calibration of two TDR sensors  
*Victoria Kolupaeva (Bolshie Vyazemy/Moscow, Russian Federation)*
- P627** Nitrate loss from tillage land - linking the unsaturated and saturated zone responses  
*Alina Premrov (Dublin, Ireland)*
- P628** Agricultural lands irrigation feasibility of Harsova Tableland, Dobrogea area-Romania  
*Ion Seceleanu (Bucharest, Romania)*
- P629** Correlations in the soil-water-plant system in the unirrigated and irrigated sugarbeet from Western Romania  
*Cornel Domuta (Oradea, Romania)*
- P630** Basic guidelines to interpret soil moisture data obtained with capacitance probes  
*Francisco Fonseca Salcedo (Cervera, Spain)*
- P631** Chemical species of toxic metals in interstitial water of sediment from the Paldang reservoir in Seoul  
*Jae E. Yang (Chuncheon, Republic of Korea)*
- P632** Thornthwaite and Mather equation modeling to describe the soil moisture evolution in olive groves under two types of soil managements: cover crops and conventional tillage  
*Ordóñez Rafaela (Córdoba, Spain)*
- P633** Parametric estimation of water retention for gypsiferous soils using Pedotransfer functions  
*Ahmad Farrokhian Firouzi (Tehran, Iran)*
- P634** Predicting water retention curve of gypsum soils using point Pedotransfer functions  
*Ahmad Farrokhian Firouzi (Tehran, Iran)*

## Poster Session 4 (Friday, August 29, 2008)

- P635** Correlation between the crop water stress index and irrigation water requirements for apple in a loamy soil: a case study in southern Romania  
*Cristian Paltineanu (Pitesti-Maracineni, Romania)*
- P636** Field calibration of capacitance soil water content sensors in expansive clay soils  
*José L. Muriel (Alcalá del Río (Sevilla), Spain)*
- P637** Use of capacitance soil water sensors to evaluate irrigation scheduling and irrigation distribution uniformity in field crops  
*Antonio Jesús Espejo-Perez (Alcalá del Río, Spain)*
- P638** Dynamics of the moisture regime of a floodplain forest under original and anthropically affected conditions  
*Vitezslav Hybler (Brno, Czech Republic)*
- P639** Reduction in soil evaporation losses due to crop residue on soil surface in three soil texture classes  
*Reimar Carlesso (Santa Maria - RS, Brazil)*
- P640** Effect of repeated application of composts on the dynamics of water in soil  
*Maha Chalhoub (Thiverval-grignon, France)*
- P641** Soil evaporation losses during maize growth cultivated in different types and amount of crop residue on soil surface  
*Reimar Carlesso (Santa Maria - RS, Brazil)*
- P642** Modelling the Hydrological Response of Land Use Change in Zanjanrood Basin  
*Golaleh Ghaffari (sanandaj, Iran)*
- P643** Soil Research in view to introducing irrigations in Baragan Plain  
*Andrei Vrinceanu (Bucharest, Romania)*
- P644** Preferential flow and slow convective chloride transport through the glossic acidic soil of a beech forest (Fougères, France)  
*Arnaud Legout (Champenoux, France)*
- P650** Evaluation of the controls on humic acid-mineral interaction  
*Burcu Özkaraova Güngör (Samsun, Turkey)*
- P651** Wetting-drying cycles effects on persistence of a natural mucilage, iron chloride and alum as structuring materials  
*Orlando Rodríguez-Rodríguez (Barquisimeto, Venezuela)*
- P652** Soil aggregate stability assessment based on a combination of wet-sieving techniques and turbidimetry  
*Massumeh Nikpour (Hamadan, Iran)*
- P653** Testing DRIFT for analyzing organic matter composition at intact flow path surfaces  
*Martin Leue (Müncheberg, Germany)*
- P654** Study of the potentially mineralized nitrogen content and nitrogen supply of a brown forest soil by incubation method in East Hungary  
*János Kátai (Debrecen, Hungary)*
- P655** Capability of wheat (*Triticum aestivum* L.) to uptake potassium from three K-bearing minerals and its effect on mineral transformation  
*Seyed Javad Hosseinifard (Isfahan, Iran)*
- P656** Difference of arsenic mobilization processes in submerged soils of a jute pond and a rice paddy in West Bengal, India  
*Syed Farooq (Karlsruhe, Germany)*
- P657** A preliminary study of the effectiveness of the sodium pyrophosphate as selective extractant for Al and Fe organically bound in andic soils  
*Simona Vingiani (Portici, Italy)*

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### S05 Soil Desertification and Salinisation (Poster Area 2)

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### S14 Organo-mineral Interactions (Poster Area 1)

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- P645** Behavior of heavy metals in the model soil system, consisting of mineral, liquid and organic components  
*Leonid Perelomov (Tula, Russian Federation)*
- P646** Thin layer chromatography study of organomineral complexes using the system of polyphenol/aluminum hydroxide  
*Martina Franke (Trier, Germany)*
- P647** Effects on suspensions dispersed particles & water purification produced by Cardon Dato mucilage, iron chloride, alum, and their combinations  
*Manuel Henríquez-Rodríguez (Barquisimeto, Venezuela)*
- P648** Photodegradation of methanol, glutamic acid and glucose on the surface of iron-bearing minerals  
*Maria Andrianaki (Bristol, United Kingdom)*
- P649** Growth and Nutritional Status of Grapevine Inoculated with Arbuscular mycorrhizal (AM) fungi in Chile  
*Eduardo von Bennowitz (Curicó, Chile)*
- P658** Effects of different growing medium salinity on germination and seedling growth stages of canola (*Brassica napus* L.)  
*Vahid Reza Jalali Moakhar (Tehran, Iran)*
- P659** Modeling canola response to salinity under vegetative growth stages  
*Vahid Reza Jalali Moakhar (Tehran, Iran)*
- P660** Researches regarding the degraded soils through salinisation for their prevention, control and bioremediation  
*Eugen-Gabriel Teodorescu-Soare (Iasi, Romania)*
- P661** Long-Term Soil Degradation and Desertification in Iran  
*Iraj Emadodin (Kiel, Germany)*
- P662** reclamation of saline and sodic soils with out using reclamtor via laboratory physical models  
*Anahita Polous (Tehran, Iran)*
- P663** Natural risk Management «of sand moves and desertification" In the region of Ziban - Cases in the region of El Hadjeb & Ain beneoui (Biskra - Algeria)  
*Tewfik Mostephaoui (Biskra, Algeria)*
- P664** Desertification Vulnerability in Gorgan Plain, Northern of Iran  
*Majid Ownegh (Gorgan, Iran)*

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## Poster Session 4 (Friday, August 29, 2008)

- P665** Salts dynamics on a soil cropped with muskmelon under drip irrigation  
*Frank Zamora (Coro, Venezuela)*
- P666** Saline soil-landscape relationships, Centre-West Senegal  
*Francois Matty (Dakar, Senegal)*
- P667** Progress in developing a process-based model linked to a geographical information system for soil salinity assessment at basin scale: the GIS-SALTIRSOIL model  
*Juan Sanchez (Albal, Valencia, Spain)*
- P668** Assessment of desertification in Gran Canaria (Canary Islands, Spain) from factors and processes  
*Juan Sanchez (Albal, Valencia, Spain)*
- P669** A proposal for soil chemical indicators in areas characterised by risk desertification in the mediterranean region  
*Carmen Perez-Sirvent (Murcia, Spain)*
- P670** Reduction of Salt Activity by Green Manure Application in Plastic Film House Soil  
*Pil Joo Kim (Jinju, Republic of Korea)*
- 
- S29 Time scales of pedogenic processes for predicting soil changes in time (Poster Area 2)
- 
- P671** Effects of rye green manure application in soil physical and chemical characteristics in Maragheh dryland condition zone  
*Seyed Bahman Mousavi (Maragheh and Tabriz, Iran)*
- P672** Effect of Peanut Compost And/or Cobalt Application on Cowpea plants Growth, Yield Parameters And Nutrients statuses  
*Hala Kandil (Giza, Egypt)*
- P673** Effect of Sewage sludge on Plant Growth in Sandy Soil  
*Ali AlJaloud (Riyadh, Saudi Arabia)*
- P674** Study of the effects of nitrogen fixation system on biochemical's of Agrobacterium tumefaciens in some Medicago cultivars  
*Mohamad Rahimi (yasouj, Iran)*
- P675** Yield and yield components of two dryland wheat cultivars as influenced by crop residue and nitrogen rates  
*Hossein Sadeghi (Shiraz, Iran)*
- P676** Antimicrobial effects of some egyptian medicinal plant methanol extracts against some soil-borne microorganisms  
*Essam Hoballah (Giza, Egypt)*
- P677** Stubble Burning, A Serious Threat to Crop Production and Soil Fertility in Iran  
*Soheila Ebrahimi (Tehran, Iran)*
- P678** Effect of azospirillum and azotobacter inoculation with farmyard manure and nitrogen application on yield and yield components in a wheat cultivar in fars province  
*Abdollah Bahrani (Ramhomo, Khozastan, Iran)*
- P679** Preparation of different growing media for apartment and ornamental plants in the north of Iran  
*Raziyeh Khalili Rad (Tehran, Iran)*
- 
- S22 Education in Soil Science and Raising Public Awareness (Poster Area 2)
- 
- P680** Soil Museum of Azerbaijan as a center of education and public awareness  
*Rena Mirzazade (Baku, Azerbaijan)*
- P681** Media Catalogue for Introduction of Soil-related Topics in School Teaching  
*Klaus Mueller (Osnabrück, Germany)*
- P682** Soil Games in Osnabrück  
*Klaus Mueller (Osnabrück, Germany)*
- P683** Bubbling the mud away - A pupils' project on biological sludge removal from a eutrophic pond  
*Holger Ciglasch (Hannover, Germany)*
- P684** SIMSURVEY - A tool for geostatistical analyses of soil contamination data with R on the web  
*Andreas Papritz (Zürich, Switzerland)*
- P685** Soil protection and education - Strategies in Saxony  
*Stephanie Hurst (Dresden, Germany)*
- P686** Forest Soils of Switzerland: how to use the data for practical applications  
*Peter Lüscher (Birmensdorf, Switzerland)*
- P687** Do-It-Your-Soil, a virtual course of applied pedology  
*Géraldine Bullinger-Weber (Neuchâtel, Switzerland)*
- P688** Soil Analysis Support System for Archaeologists (SASSA)  
*Clare Wilson (Stirling, United Kingdom)*
- P689** The Learning Region Concept for Soil and Land  
*Werner Kvarda (Vienna, Austria)*
- 
- S12 Management of Contaminated Soils (2): concepts and policy development (Poster Area 2)
- 
- P690** Testing the usefulness of using a generic reference level for Cu for risk assessment in Mediterranean agricultural soils  
*Luis Recatala (Albal, Valencia, Spain)*
- P691** Influence of Salts in Fractionation of Chromium in Agricultural Soils of central Greece  
*Evangelia Golia (Nea Ionia Magnissias, Greece)*
- P692** principal component analysis of potentially toxic elements in forest soils of bulgaria  
*Jaume Bech (Barcelona, Spain)*
- P693** Recent EU Developments in the Management of Contaminated Soil - a Legal Perspective  
*Aoife Shields (Cork, Ireland)*

## Poster Session 4 (Friday, August 29, 2008)

S15 Soil Information Systems, Regionalisation of Soil Data including Soil Associations (Poster Area 2)

- P694** Identification and regionalization of dominant runoff processes - A GIS-based approach  
*Christoph Müller (Trier, Germany)*
- P695** Soil Information in Germany: The 2008 Position  
*Wolf Eckelmann (Hannover, Germany)*
- P696** Lost in the triangular diagrams of soil texture  
*Anne Richer de Forges (Ardon, France)*
- P697** Biomass production potential on saline and sodic soils in Southwest Asia  
*Boris Vashev (Stuttgart, Germany)*
- P698** Spatial and thematic improvement of the Digital Kreybig Soil Information System for specific functional applications  
*László Pásztor (Budapest, Hungary)*
- P699** Designation of low-productivity areas for cultivation of wild growing fungi  
*László Pásztor (Budapest, Hungary)*
- P700** Spatial interpolating soil organic carbon using several interpolator predictors  
*Masoud Davari (Tehran, Iran)*

S09 Forest Management and Soils (Poster Area 3)

- P701** Soil quality changes under innovative agroforestry systems  
*Maria Wolff (Tharandt, Germany)*
- P702** Combination of deterioration rate and weather factor in evaluating durability of small wooden check dams  
*Dang Quoc Dung (Tokyo, Japan)*
- P703** Isolating the effect of soil moisture on the soil respiration - temperature relationship  
*Robert Szava-Kovats (Tartu, Estonia)*
- P704** Effects of parent soil material and tree species on litter decomposition in Hyrcanian Forest, Iran  
*Vahid Hosseini (Sanandaj, Iran)*
- P705** Selection of tree species for the afforestation of halomorph soils in Vojvodina  
*Zoran Galic (Novi Sad, Serbia)*
- P706** How reliable are soil water measurements for estimation of water balance components? A comparative experimental study in spruce and beech stands in the Tharandt forest (Germany)  
*Kai Schwärzel (Tharandt, Germany)*
- P707** Soil Solution Chemistry and Impact of Forest Thinning in Temperate Forests in Taipingshan, Northeastern Taiwan  
*Chen Tsai (Ilan, Taiwan)*
- P708** Fly ash impact on soil physical properties of forest soils  
*Peter Hartmann (Kiel, Germany)*
- P709** Impact of Mn<sup>2+</sup> addition on carbon release (DOC and CO<sub>2</sub>) from forest floor horizons  
*Florence Trum (Louvain-la-Neuve, Belgium)*

- P710** Impact of historical fly-ash immission on chemical properties of forest soils  
*Heiko Fritz (Tharandt, Germany)*
- P711** Spatial variation of enzyme activity in wood soil types of Adygea  
*Alexander Larikov (Rostov-on-Don, Russian Federation)*
- P712** Development of Assessment Method for Forest Soil Compaction  
*Maja Krzic (Vancouver, BC Canada)*
- P713** Does stump harvesting modify forest soil decomposer community?  
*Saana Kataja-aho (Jyväskylä, Finland)*
- P714** Changes in physico-chemical properties of forest soils affected by fires in the Osogovo Mountain, Bulgaria  
*Emiliya Velizarova (Sofia, Bulgaria)*
- P715** Cattle Grazing in British Columbia, Canada's Forested Rangeland: an Example of Integrated Land Use  
*Maja Krzic (Vancouver, BC Canada)*
- P716** Spatial diversity of lead concentration in forest soils in the area of Karkonosze National Park  
*Katarzyna Szopka (Wroclaw, Poland)*
- P717** Relations of soil and forest vegetation in an area of intensive forest management and land up-lift at the Olkiluoto Island, Finland  
*Anne-Maj Lahdenperä (Vantaa, Finland)*
- P718** Development of soil chemistry on intensively monitored forest ecosystems plots in the Czech Republic during 1995 - 2005  
*Vít Srámek (Jíloviště, Czech Republic)*
- P719** Change in the chemical properties of forest soils two and five years after liming  
*Lucie Vortelová (Jíloviště, Czech Republic)*
- P720** Compaction of forest soils; a traffic experiment with heavy forestry machinery - Soil biological, physical and mechanical aspects  
*Stéphane Sciacca (Birmensdorf, Switzerland)*
- P721** Monitoring of soil parameters after a forest soil restoration  
*Hans Unterfrauner (Graz, Austria)*
- P722** Soil conditions on sites of autochthonous European black poplar in Slovenia  
*Mihej Urbančič (Ljubljana, Slovenia)*
- P723** Seepage water quality before and after clear cutting of Norway spruce stands at Ballyhooly (Ireland) and Höglwald (Germany) under high sea salt and nitrogen deposition  
*Christian Huber (Freising, Germany)*
- P724** Nutrient cycling and soil properties after harvester thinning in a nutrient poor Norway spruce stand  
*Christian Huber (Freising, Germany)*
- P725** The evaluation of deforestation effects on some soil chemical characteristics in four different regions of Guilan province  
*Amir Bahrami (Tehran, Iran)*
- P726** Evaluation of effects of converting forest to tea on soil fertility characteristics: case study in Guilan province  
*Amir Bahrami (Tehran, Iran)*

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## Poster Session 4 (Friday, August 29, 2008)

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- P727** Effect of clear-cutting on soil carbon pool and CO<sub>2</sub> fluxes from boreal forest soil  
*Jukka Pumpanen (Helsinki, Finland)*
- P728** Using dissolved organic carbon for Norway spruce transformation  
*Michal Remes (Brno, Czech Republic)*
- P729** Time-related changes in size distribution and quality of charred materials set down on soil following a wildfire in a pine forest in Central Italy  
*Caterina Nocentini (Firenze, Italy)*
- P730** Soil temperature and moisture conditions: effect on tree vitality  
*Lisa Ukonmaanaho (Vantaa, Finland)*
- P731** Decomposition rate in the floodplain forest  
*Helena Lorencová (Brno, Czech Republic)*
- P732** Confrontation of soil quality under limed and non-limed stand in the mountain forest  
*Sabina Truparová (Brno, Czech Republic)*
- P733** Forest floor vegetation as indicator for soil deformation  
*Thorsten Gaertig (Göttingen, Germany)*
- P734** Does species composition affect soil carbon pools in Mediterranean mountain forests?  
*Eugenio Díaz-Pinés (Madrid, Spain)*
- P735** Spatial and temporal variability of nitrate and other ions and elements in seepage water below a N saturated mature spruce stand  
*Michael Kohlpaintner (Munich, Germany)*
- P736** Effects of thinning on the soil moisture content of Acacia mangium plantations in Northeast Thailand  
*Masaharu Sakai (Tsukuba, Ibaraki, Japan)*
- P737** Natural regeneration of Norway spruce 16-18 years after intensive forest management  
*Raimo Sutinen (Rovaniemi, Finland)*
- P738** A case study of soil removal affected soil-forest environment in the industrializing area  
*Dang Quoc Dung (Tokyo, Japan)*
- P739** Humus forms under Quercus spp. in Mediterranean conditions  
*Anna Andreetta (Firenze, Italy)*
- P740** Spruce resin affects C and N transformations in birch soil  
*Martti Uusitalo (Vantaa, Finland)*
- P741** N-P-K retranslocation in Pinus taeda L. needles in Rio Grande do Sul-Brazil  
*Marcio Viera (Santa Maria, Brazil)*
- P742** Impacts of four tree species on forest soil chemistry and nutrient fluxes: a Sr isotopic approach  
*Juliette Herouet (Bruxelles, Belgium)*
- P743** CH<sub>4</sub> uptake of soils of a temperate deciduous forest with different abundance of European beech (Fagus sylvatica L.)  
*Heiner Flessa (Göttingen, Germany)*
- P744** Processes of soil solution P supply in a very low P sorbing forest soil  
*David Achat (Villenave d'Ornon, France)*
- P745** Mechanical mixing of moder humus promotes mineralization of older soil organic N  
*Arnaud Legout (Champenoux, France)*
- P746** Polyphenol oxidase, tannase and protease activity in relation to tannin concentrations in soil under silver birch and Norway spruce  
*Bartosz Adamczyk (Lodz, Poland)*
- P747** Relations between soil properties and growing characteristics of Grey alder (Alnus incana L.) stands in Western part of Latvia  
*Andis Bardulis (Salaspils, Latvia)*

# Poster Awards

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## AWARD by the ECSSS and EUROSIL 2008

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Out of all presented posters one or two (depending on the overall number of posters per Symposium / Topic) for each Symposium / Topic will be nominated by the respective convenors. The selected posters will be marked and moved by the congress staff to a special "Poster Award Finalists" area (main entrance).

The Poster Committee will then select the ten best posters out of the "Poster Award Finalists" area. The authors of these posters will receive a diploma and EUR 200,-. **Prices will be awarded in the Closing Session on Friday, August 29, 2008, 17.00 -18.00 hrs. .**

### Poster Committee:

Martin Gerzabek, Vienna, Austria  
Ferdo Basic, Zagreb, Croatia  
Erika Micheli, Gödöllő, Hungary  
Rainer Schulin, Zurich, Switzerland

### Judging criteria

- 1) *Content* (relevant, original, up-to-date, etc) – weighting: 50%
- 2) *Experimental plan and techniques* (controls, replicates, accuracy of the used techniques, etc) – weighting 25%
- 3) *Presentation* (design, clarity, etc) – weighting 25%

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## AWARD by the journal "Biology and Fertility of Soils"

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This award is for the best poster presented by a young scientist in sessions whose scientific area is covered by this journal:

- 1) Soil Organic Matter
- 2) Soil Ecology- Soil as Living Space
- 3) Organo-mineral Interactions
- 4) Rhizosphere Processes
- 5) Soil and GMOs
- 6) The influence of soil quality on human health and food security
- 7) Soil fertility and Environment

The winner will receive all issues of the journal in 2009 and she/he will have free access to the website of the journal.

The Convenors of each of the above mentioned sessions will nominate the best poster of the specific session presented by a young scientist (35 years or younger). Then a five-member committee nominated by the Editor-in-Chief of the journal and the Organiser of EUROSIL will choose the best poster among the overall nominations.

### Poster Committee:

Paolo Nannipieri, Florence, Italy  
Heike Knicker, Munich, Germany  
David Hopkins, Dundee, United Kingdom  
Angela Sessitsch, Seibersdorf, Austria  
Kornela Smalla, Braunschweig, Germany

### Judging criteria

- 1) *Content* (relevant, original, up-to-date, etc) – weighting 50%
- 2) *Experimental plan and techniques* (controls, replicates, accuracy of the used techniques, etc) – weighting 25%
- 3) *Presentation* (design, clarity, etc) – weighting 25%

# Workshops

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## WORKSHOP 1 – INTERNATIONAL AND EU SOIL POLITICS

Wednesday August 27, 2008 – 14.00 - 18.00 hrs

Location: HS17

Convenor: Pavol Bielek, VUPU, Slovakia

Co-convenor: Winfried E.H. Blum, BOKU, Austria

### DESCRIPTION

Soil politics is a key issue for sustainable soil use and soil protection, which regrettably are not satisfactory at a national and an international level. Participants of the Workshop are invited to prepare and contribute opinions, arguments and experiences relevant to this topic. As a result of the discussions, we hope to define the main deficits on the scientific level as well as on the decision level. This will also be the topic for the main presentations. At the end, we hope to present new research findings in legal issues and decision making. New ideas and research results which support soil politics are welcome. A central approach could be the protection of specific soil functions, which could possibly improve the progress in research as well as in the development of legal instruments and decision making. We also hope to define priorities in the assessment of soil protection politics and in the definition of new proposals for the implementation of soil politics within the management of natural resources, including the International Conventions.

Time	Speaker	Title of Presentation
14.00-14.20	P. Bielek	Opening and short introduction into the topics of the workshop
14.20-15.00	L. Montanarella	International and EU soil protection strategies: status and future perspectives
15.00-15.30	W.E.H. Blum	Soil politics between environmental protection and knowledge-based bioeconomy
15.30-16.00	J. Rubio	Towards an European framework for soil sustainability: the role of ESSC
16.00-16.30	Coffee Break	
16.30-17.00	UNCCD, UNCB, UNCCC	The role of soils in International Conventions
17.00-18.00	Moderator: P. Bielek	Discussion

# Workshops

## WORKSHOP 2– HUMUS AS AN ECOLOGICAL INDICATOR

Wednesday, August 27, 2008 – 08.30 - 18.00 hrs

Location: HS11

Convenor: Klaus Katzensteiner, BOKU, Austria

Co-convenor: Augusto Zanella, Univ. Padova, Italy

### DESCRIPTION

1. Historical path
2. Recent engagement
3. Issue

1. A network of European humus researchers was founded in Trento (Italy) in 2003. In July 2004, the commission "Classification of (European) Humus Forms" met in Vienna (Austria) and drafted a key to the main terrestrial humus forms based on response to environmental conditions and specific biological activities. This draft was presented in Freiburg (Germany) at EUROSOIL 2004.

From this event, other goals have been achieved: the definitive admission of the Amphi forms at the first level of classification during the meeting in San Vito (University of Padua, Italy, 2005); a draft of a European key of classification was presented in the form of a poster at the 18th Congress of Soil Science (USA, Philadelphia, 2006). It was further agreed to use in the European key of classification international references concerning the structure of soils (as defined in the USDA Soil Survey Manual, 1993, or World Reference Base for Soil Resources, FAO 2006). In succession the attempt was made to apply the classification system to Mediterranean humus forms (Meeting of the Humus Group in Sardinia; University of Cagliari, Italy 2007). The proposed classification key has been implemented into the manual of the UN-ECE –ICP forest (<http://www.icp-forests.org/Manual.htm>).

2. The first general principles of a common classification have been finalized. Protocols for assessment and sampling of ecto- and endorganic layers were set up as well as definitions of specific horizons and their designation.

The Humus Group sees the key to humus classification as its common effort, which may contribute to the understanding of ecosystem functioning and may establish humus classification as a diagnostic tool for ecosystem status. The Humus Group sees the description of humus forms as a tool to characterize systems or communities of biota, which evolve together in response to environmental factors and humus forms may be indicative for these. We see the very abstract procedure of classification of humus forms as our common and demanding task, which makes sense especially under the above aspects.

3. The EUROSOIL 2008 is perceived by the Humus Group as a forum which allows us to introduce the wider scientific community to our intentions and to further our efforts towards an internationally agreed classification and standardization of defined humus forms. To achieve these goals a workshop is organized around the theme: "Humus as an ecological indicator". In accordance with the above described points, the workshop is organized into three subthemes:

1. Humus classification (contact: [augusto.zanella@unipd.it](mailto:augusto.zanella@unipd.it)),
2. Humus functioning (contact: [klaus.katzensteiner@boku.ac.at](mailto:klaus.katzensteiner@boku.ac.at)) and
3. Humus as an ecological indicator (contact: [rein.dewaal@wur.nl](mailto:rein.dewaal@wur.nl)).

Before the workshop each subgroup should prepare a paper on the relevant subgroup topic (as described above), which will be presented to the other teams during the workshop. The final outcome should be a common standardized treatise of the overall theme, which may integrate all three subthemes and may contribute to the overall understanding of humus as an ecosystem indicator.

Time	Speaker	Title of Presentation
8.30–9.00		Introduction (why a workshop, how to manage for results...)
9.00–9.20		Humus as an ecological indicator (coordinator's intervention)
9.20–10.00		Discussion
10.00–10.30	Coffee Break	
10.30–10.50		Humus forms functioning (coordinator's intervention)
10.50–11.30		Discussion
11.30–11.50		Humus forms classification (coordinator's intervention)
11.50–12.30		Discussion
12.30–14.00	Lunch Break	
14.00–15.30		Redaction of a common paper (joined units)
15.30–16.00	Coffee Break	
16.00–18.00		Research projects

## Workshops

### WORKSHOP 3 – EU FOREST SOIL MONITORING – BIOSOIL

Wednesday August 27, 2008 – 8.30 - 12.30 hrs

Location: HS8

Convenors: Ernst LEITGEB, Austria; Eric VAN RANST, Belgium

Time	Title of Presentation	Speaker	Authors
08.30-09.00	Keynote talk: The European Communities' project BioSoil : Status and Perspectives	Tracy Houston Durrant	Tracy Houston Durrant, Luca Montanarella, Jesús San Miguel-Ayanz EC, JRC, Institute for Environment and Sustainability, Land Management and Natural Hazards Unit
09.00-09.15	BioSoil one year inventory compared to Swedish special attention to carbon storage	Lars Lundin	Lars Lundin Swedish University of Agricultural Sciences, Uppsala
09.15-09.30	Forest soil monitoring in the UK	Elena Vanguelova	Elena Vanguelova Environmental & Human Sciences Division, Forest Research, Farnham, Surrey, UK
09.30-09.45	Modelling soil spatial variability in an ICP level II plot	Stefano Carnicelli	Ciampalini <sup>1</sup> , R., Andrcetta, A. <sup>1</sup> , Cecchini, G. <sup>1</sup> , Carnicelli, S. <sup>1</sup> , Poggio, G. <sup>2</sup> , Matteucci, G. <sup>3</sup> <sup>1</sup> University of Firenze, D.S. S.N.P., Italy <sup>2</sup> CNR-ISE, Pisa, Italy <sup>3</sup> CNR-ISAFOM, Rendz, Italy
09.45-10.00	Humus types as indicators of changing environmental conditions in German forests	Nicole Wellbrock	Nicole Wellbrock, Steffen Schobel, Gerhard Milbert, Jan Martin Federal Research Centre for Forestry and Forest Products, Institute for Forest Ecology and Forest Assessment, Eberswalde, Germany
10.00-10.15	BioSoil Austria – interim results: Spatial variability and changes over time	Franz Mutsch	Franz Mutsch, Robert Hacker Federal Research and Training Centre for Forests (BFW), Vienna
10.15-10.30	Humus characteristics in forest soils using FTIR Spectroscopy	Michael Tatzber	
10.30-11.00	coffee break		
11.00-11.15	Harmonisation and quality measures within BioSoil	Nathalie Cools	<u>Nathalie Cools</u> , Bruno De Vos, Jari Hinsch Mikkelsen Forest Soil Co-ordinating Centre, Research Institute for Nature and Forest, Geraardsbergen, Belgium
11.15-11.30	Profile description and classification within BioSoil	Jari Hinsch Mikkelsen	Jari Hinsch Mikkelsen, <u>Nathalie Cools</u> , Bruno De Vos Forest Soil Co-ordinating Centre, Research Institute for Nature and Forest, Geraardsbergen, Belgium
11.30-12.30	Guided discussion on topics already introduced in the key talks	Discussion panel : Tracy Houston Durrant (JRC) Nathalie Cools (FSCC) Christine Le Bas (INRA)  Participants José Manuel Grau Lars Lundin Elena Vanguelova Stefano Carnicelli Nicole Wellbrock Franz Mutsch Michael Tatzber Gerhard Milbert	

# Workshops

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## WORKSHOP 3 continued – EU FOREST SOIL MONITORING – BIOSOIL

Wednesday August 27, 2008 – 8.30 - 12.30 hrs

Location: HS8

### Topics of discussion

- 1) What should/will be the availability of the BioSoil data?
  - a. Regards timing (when will the database be open?)
  - b. Regards ownerships and accessibility (who will have access to the data and to which level?)
  - c. Type of the data that will be made available: subsets// aggregated data
  - d. Regards the scale (full coordinates available or not?)
- 2) Quality aspects of the BioSoil data
  - a. Use of laboratory methods (use of reference methods, national methods, (and any 'in between' or adapted forms of methods)
  - b. Factors influencing accuracy and precision
  - c. QAQC measures at the different levels 1) field 2) lab 3) data submission (quality checks on the data by JRC/INRA)
  - d. Performance of laboratories based on Interlaboratory Comparisons, FSCC reference material
- 3) What have been the experiences with the WRB soil classification on the European forest soils?
  - a. General discussion on bottlenecks and advantages
  - b. To which level of detail did it serve the best way the purposes of the project? (N° of qualifiers and specifiers)  
So at which level of detail is WRB feasible for a European wide inventory?
  - c. Necessity for chemical data (High costs involved => does it pay back?)
- 4) What are the stratification possibilities of the data?
  - a. Use of WRB? At which level of detail?
  - b. Use of humus classification system?
  - c. Other suggestions...
- 5) Can BioSoil data provide answers to research questions related to carbon storage and sequestration, impact of climate change.
- 6) What can we do better in the next forest soil survey? How can we use our experience gained in BioSoil in the future?

# Workshops

## WORKSHOP 4 – SOIL QUALITY

Wednesday August 27, 2008 – 8.30 - 18.00 hrs

Location: HS18

Convenors: Luca Montanarella, Italy; Gergely Tóth, Italy

Time	Subject	Speaker	Title of presentation
8.30-8.50	<b>Opening address</b>	L. Montanarella A. Jones	Soil Thematic Strategy of the EU: the framework for protecting the quality of soils in Europe
	<b>General concept of SQ</b>	G. Tóth	Soil Quality – A concept in support of the Thematic Strategy for Soil Protection
	Questions	All	
8.50-9.20	<b>Threat I. Salinization</b>	G. Várallyay T. Tóth	Function of salt affected soils in Europe: biomass production or nature conservation? Crop yields as affected by soil salinity, sodicity and alkalinity
	Questions	All	
	9.20-9.40	<b>Threat II. Compaction</b>	R. Horn L. Montanarella
Questions		All	
9.40-10.00		<b>Threat III. Biodiversity decline</b>	C. Gardi
	Questions	All	
10.00-10.20	Coffee break		
10.20-10.50	<b>Threat IV. Erosion</b>	E. Rusco	Soil Erosion: a main threat to the soils in Europe
		C. Bosco	Soil Erosion risk assessment in the Alps area according to the IPCC scenario
		H. Reuter	An example of soil threat evaluation: wind erosion assessment using DSM techniques
	Questions	All	
10.50-11.20	<b>Threat V. Landslides</b>	J. Hervás	The landslide threat to development in sloping areas: implications and prevention strategies
		R. Seliger	Landslide Risk Mapping in Urban Spaces by Using High-Resolution DEM – a Comparative Analysis of Soil Stability in Sarno (South Italy) and Recife (NorthEast-Brazil)
	Questions	All	
11.20-11.50	<b>Threat VI. Contamination</b>	L. Lado	A framework to estimate the distribution of heavy metals in European Soils
	Questions	All	
11.50-12.30	<b>Threat VII. SOC decline</b>	V. Stolbovoy	Application of soil organic carbon for policy-decision making in the EU
		G. Manni	Towards soil carbon status indicators in the Veneto Region
		S. Brenna	Evaluation of the soil organic carbon status in Lombardy Region (Italy)
	Questions	All	
12.30-14.00	Lunch break		
14.00-14.20	<b>SQ Indicator representation</b>	P. Pangos	MEUSIS, a Multi-Scale European Soil Information System (MEUSIS): novel ways to derive soil indicators through up-scaling
14.20-15.40	<b>Discussion</b>	All	Concept of soil quality description
		All	Threat-specific analysis of soil functions
15.40-16.00	Coffee break		
16.00-18.00	<b>Discussion and conclusion</b>	All	Options for soil quality assessment in Europe: recommendations

# Workshops

## WORKSHOP 5 – CONTAMINANT DYNAMICS IN PERIODICALLY FLOODED SOILS

Wednesday August 27, 2008 – 8.30 - 18.00 hrs

Location: HS13

Convenor: Johannes Barth, Germany

Co-convenors: Ruben Kretzschmar, Switzerland; Andreas Voegelin, Switzerland; Kai U. Totsche, Germany

Periodically flooded soils are among the most dynamic biogeochemical environments of the Earth's surface. They link terrestrial with aquatic systems and often act as important sinks and/or sources for inorganic and organic contaminants. Periodic flooding causes strong fluctuations in soil redox conditions and leads to complex abiotic and biotic transformations of pollutants, organic matter, and minerals. These processes ultimately control the behavior of contaminants in such systems. The aim of this workshop is to discuss the current state of knowledge and research needs in order to better understand biogeochemical processes that control contaminant speciation, sorption, bioavailability, and mobility in periodically flooded or waterlogged soils. Selected topics include:

- Redox transformations and speciation changes of trace metals and metalloids during redox cycles
- Interaction of organic and inorganic materials
- Redox transformations of organic pollutants
- Regulation and dynamics of microbial processes in flooded soils
- Mineral-surface catalyzed redox reactions
- Mineral formation and transformations (e.g., oxides, sulfides)
- Contaminant sorption and desorption under reducing conditions
- Release of colloids and DOM induced by soil flooding or drainage
- Rhizosphere chemistry in flooded soils

Keynote lectures will be presented by Jörg Rinklebe, Tim Mansfeldt, Kirsten Küsel, and Thomas Hofstetter.

The workshop is supported by Division 2 of the International Union of Soil Sciences and by the EU-Project AquaTerra.



### Morning Session:

Time	Speaker	Title of Presentation
8.00-8.15	Kretzschmar, R	Welcome and introduction
8.15-9.00	Rinklebe, J. (Keynote)	Dynamics of metals in floodplain soils
9.00-9.45	Mansfeldt, T., Overesch, M., Kinze, K. (Keynote)	Release of arsenic from a Haplic Gleysol under varying redox conditions
9.45-10.15	Coffee Break	
10.15-11.00	Küsel, K. (Keynote)	Effect of metal-reducing microorganisms on the mobility of heavy metals in waterlogged soils
11.00-11.20	Hofacker, A., Weber, F.-A., Voegelin, A., Kretzschmar, R.	Effect of temperature on colloidal trace metal release from a submerged contaminated floodplain soil
11.20-11.40	Contin, M., Hurtrel, S., Bertoni, A., Cudini, A., De Nobili, M.	Soil redox changes enhance metal fixation into Fe (hydr)oxides
11.40-12.00	Grybos, M., Davranche, M., Gruau, G., Petitjean, P.	The role of organic matter release on trace metal mobility in wetland soils under reducing conditions
12.00-13.00	Lunch	

## Workshops

### WORKSHOP 5 continued – CONTAMINANT DYNAMICS IN PERIODICALLY FLOODED SOILS

Wednesday August 27, 2008 – 8.30 - 18.00 hrs

Location: HS13

#### Poster Presentation: Authors present 13.00 – 14.30

Poster	Authors	Title of Presentation
1	Huang, J.-H., Voegelin, A., Kretzschmar, R.	Influence of arsenate adsorption on iron and aluminum hydroxide surfaces on microbial arsenate reduction rates
2	Fritzsche, A., Totsche, K.U., Kögel-Knabner, I.	Coagulation dynamics of naturally formed iron hydroxide nanoparticles after addition of mono-, di- and trivalent cations and its relevance for arsenic mobility
3	Achten, C., Hofmann, T.	Hard coals as PAC sources in flooded soils – The question of bioavailability
4	Baciu, C., Jimenez, C., Costin, D., Roşu, C.	Dispersion of cyanides and heavy metals in alluvial materials consequently to an industrial accident
5	Overesch, M., Mansfeldt, T.	Arsenic solubility and speciation in a Haplic Gleysol
6	Klaver, G.Th, van Os, B.J.H., Négrel, P., Petelet, E.	Fractional sedimentation of suspended matter in the Danube
7	Dittmar, J., Frommer, J., Voegelin, A., Roberts, L.C., Hug, S.J., Kretzschmar, R.	Spatiotemporal trends of arsenic in irrigated paddy soils in Bangladesh
8	Jordan, G., Gerzabek, M., Lair, G., Zehetner, F.	Multi-scale temporal modeling of sediment dynamics and transport in floodplains. A case study for the Donau-Auen floodplains, Austria

#### Afternoon Session:

Time	Speaker	Title of Presentation
14.30-15.15	Hofstetter, T.B., Neumann, A., Skarpeli-Liati, M., Lüssi, M., Schwarzenbach, R. (keynote)	Reduction of organic contaminants by ferrous iron species in clay minerals
15.15-15.35	Rennert, T.	Redox processes of iron-cyanide complexes in soils
15.35-15.55	Pagels, B., Totsche, K.U., Kögel-Knabner, I.	Flood effects on contaminant release in alluvial top soils – results from column lysimeter studies
15.55-16.20	Coffee Break	
16.20-16.40	Paskiewicz, I., Berthelin, J.	Impact of interactions between rhizosphere and temporary waterlogging on the mobility, redistribution and availability of trace metals associated to Fe and Mn oxyhydroxides
16.40-17.00	Klaver, G.Th, Vink, J.P.M., Négrel, P., Petelet, E.	Contaminant dynamics in the river Meuse basin
17.00	Barth, J.	Concluding Remarks

# Workshops

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## WORKSHOP 6 – SoilCritZone - SOIL SUSTAINABILITY IN EUROPE

**Wednesday August 27, 2008 – 14.00 - 18.00 hrs**

**Location: HS8**

*Convenor: Vala Ragnarsdottir, United Kingdom*

*Co-convenor: Prof. Nikos Nikolaidis, Greece*

### DESCRIPTION

In this workshop we will introduce the outcomes of work funded by the European Commission (EC) that has the aim to underpin strategies for soil protection. The EC FP6 Specific Support Action entitled 'Soil sustainability in Europe as deduced from investigation of the Critical Zone' (SoilCritZone) has several objectives:

- To unify the fragmented European Soil Community - research and policy
- To quantify the soil life-cycle
- To develop European soil research strategy
- To underpin European soil conservation efforts
- To work with colleagues in the US
- To include the soil concerns of the developing world

This workshop will explore and debate the outcomes of the first and second workshops of SoilCritZone to be held in Bristol, October 2007, and Sofia, April 2008. These workshops will develop the themes of (i) Soil formation processes/weathering; (ii) Soil erosion and degradation; (iii) Life cycle of soils – modelling; and (iv) Biodiversity and cross-cutting issues. This EUROSOIL workshop will expect participants to think 'outside the box', considering fringe soil science, such as permaculture.

The workshop will begin with addresses from keynote speakers who will outline the outcomes of the workshops. Participants will then be invited to contribute to the themes using the World Café working group format.

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## WORKSHOP 7 – "RISKBASE" – WHY CARE OF SOILS IN RIVER-BASIN MANAGEMENT?

**Wednesday August 27, 2008 – 8.30 - 12.30 hrs**

**Location: HS6**

*Convenor: Jos Brils, The Netherlands*

*Co-convenor: Vala Ragnarsdottir, United Kingdom*

### DESCRIPTION

In the EC FP6 Coordination Action project RISKBASE ([www.riskbase.info](http://www.riskbase.info)), leading European scientists and representatives of major, European stakeholder groups are reviewing and synthesizing the outcome of EC RTD Framework Program projects, and other major initiatives, related to integrated risk assessment-based management of the water/sediment/soil system at the river-basin scale. The synthesis will lead to the development of integrated risk assessment-based management approaches enabling the prevention and/or reduction of negative impacts caused by human activities on that system.

Logically, risk is always connected to an object or area of concern. Within RISKBASE this risk object is defined as the goods and services provided by the soil-sediment-water ecosystem, with a specific focus on resilience of that system.

The workshop participants are challenged to debate the next three statements

Prof. Sue White will trigger the discussion on the 1st statement:

*"Soil is NOT an essential matrix of concern in a risk-based management approach for river basins and at the scale of catchments".*

Prof. Winfried Blum will warm-up the debate on the 2nd statement:

*"NO scientific, biophysical evidence/indications exist for the resilience of soil systems under anthropogenic pressures".*

Dr. Joop Vegter will address his key-note towards the 3rd statement:

*"There are NO relevant messages from scientific findings in soil science that should find their way into Water Framework Directive River Basin Management Plans or their update(s)".*

# Workshops

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## WORKSHOP 8 – MORE SUCCESS IN FP7 THROUGH ANALYSIS OF THE CALL AND UNDERSTANDING YOUR CONTRIBUTION TO EC POLICY

Wednesday, August 27 – 08.30 - 12.30 hrs

Location: Böckl-Saal

Convenor: Stephen Webb, RTD Services ([webb@rtd-services.com](mailto:webb@rtd-services.com))

### DESCRIPTION

The EU Seventh Framework Programme (FP7) has proven to be even more competitive than past Framework Programmes. The competitive edge needed to win an FP7 project begins with really understanding what the EC is looking for, both through what is written in the call text and how your project will contribute to implementation of EC policy. Evaluations are showing that many FP7 proposals are underscoring in the Impact section, which mainly deals with contribution to EC policy. Where do you find policy information and how do you know which are the key policies relevant to your proposal? What's the difference between the various EC policy papers? How do you properly utilise this information? How do you describe your impact in "quantifiable and verifiable terms"? Who are the stakeholders relevant to your proposal and how do you classify and address them?

This workshop will deal with:

- How to analyse and apply the call text as a basis to formulate of specific scientific and technological objectives for implementation in the work plan
- How to identify and utilise policy documents to strengthen the positioning of an FP7 proposal as well as to correctly address stakeholders.
- Examples from soil science topics from the current FP7 Environment and/or Food calls

Stephen Webb holds a Master's degree in Environmental and Engineering Geology, an MBA and is currently completing his doctorate at the BOKU. He has over 12 years experience in development and management of FP projects, having worked on more than 100 proposals since FP4. He is an FP evaluator for the European Commission and is managing director of the company RTD Services, which is a management and dissemination partner in five FP projects.

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## WORKSHOP 9 - GREENHOUSE GAS BUDGET OF SOILS - HOTSPOTS OF EMISSIONS / COST 639

Wednesday August 27, 2008 – 8.30 - 18.00 hrs

Location: Festsaal

Convenor: Robert Jandl, BFW, Austria

Co-convenor: Mats Olsson, SLU, Sweden

### DESCRIPTION

The focus of the workshop is the discussion of reporting requirements of soil C changes within the Kyoto protocol. Special emphasis is paid to the impact of soil disturbance and land-use change on soil carbon pools, and to the existence of hot spots of green-house gas emissions. We will explore whether or not it is possible and economically feasible to build information on ecosystem disturbance and land-use change in reporting concepts and compare that to the option of providing default values for a range of ecosystems. Moreover, we will explore to what extent the modeling of soil carbon dynamics can substitute for field assessments of soil carbon pool changes. The topics of the workshop are in line with the COST Action 639 (BurnOut; [www.cost639.net](http://www.cost639.net)). The anticipated format is that an introductory presentation is given, followed by a discussion.

Time	Speaker	Title of Presentation
8.30-8.45	Robert Jandl (BFW, Austria)	Objectives of COST Action 639 Greenhouse gas budget of soils under changing climate and land use (BurnOut)
8.45-9.10	Zoltan Somogyi (Forest Research Institute, Hungary)	Keynote Reporting soil carbon stock change information under the UNFCCC and its Kyoto Protocol
9.10-10.00	Chair: Lars Vesterdal (Univ Copenhagen, Denmark) and Jens Leifeld (ART, Switzerland)	Discussion
10.00-10.30	Coffee Break	
10.30-11.00	Mats Olsson, SLU, Sweden)	Ecosystems posing particular problems to greenhouse-gas reporting
11.10-12.30	Chair: Nynke Schulp, Alterra, NL	Discussion
12.30-14.00	Lunch Break	
14.00-14.30	Jukka Alm, METLA, Finland	Quantification of greenhouse-gas emissions from peatland
14.30-16.00	Chair: Ken Byrne, Univ Limerick, Ireland	Discussion
16.00-16.30	Coffee break	
16.30-17.00	Theodore Karyotis, Greece	Mediterranean soils, agricultural practices and agroenvironmental legislation
17.00-18.00	Chair: Stephan Glatzel, Univ Rostock, Germany	Discussion

# Workshops

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## **WORKSHOP 10 – NEW FRONTIERS IN SOIL PROTECTION RESEARCH: PERSPECTIVES AND CHALLENGES (ESSC-Workshop)**

**Wednesday, 27 August 2008 – 14.00 - 18.00 hrs**

**Location: Böckl-Saal**

*Convenor: José L. Rubio, CIDE, Valencia, Spain*

*Co-convenors: Donald Gabriels, Univ. Gent, Belgium; Mike Fullen, Univ. Wolverhampton, United Kingdom*

### **DESCRIPTION**

Historically, Soil Conservation Science has maintained a clear orientation to agrarian production, with a long and significant record of scientific and applied contributions. These contributions have being of considerable relevance to humanity. However, in recent decades, there have been important epistemological changes towards more holistic objectives, including environmental aspects. It is anticipated that important and new scientific paradigms will develop, owing to the wide recognition of the fundamental role of soil in the support and functioning of terrestrial systems. Particularly there are emerging and important aspects related to soil protection that require scientific analysis and conceptual reflections. These objectives include maintaining biodiversity, regulation of the hydrological cycle and water reserves, implications for the landscape, bioengineering for soil conservation, the tendency towards more ecological agriculture, the implications of global approaches and the role of soil as a source and sink of greenhouse gases and others interactions with climatic change, such as desertification.

Together with gaps in knowledge and methodological constrains, there are also new research tools, technologies, equipments and methodologies that require new approaches and visions.

The aim of the Workshop is to offer a deep analysis, discussion and orientations on how to meet the social and environmental demand on protecting the soil for the sound functioning of the biosphere.

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## **WORKSHOP 11 – INTEGRATING POLLUTANT FLUX MANAGEMENT INTO SPATIAL DEVELOPMENT**

**Wednesday, 27 August 2008 – 08.30 - 12.30 hrs**

**Location: HS7**

*Convenor: Erwin Hepperle, ETH Zurich, CH (hepperle@env.ethz.ch)*

*Co-convenor: Stephen Nortcliff, Univ. Reading, UK (iuss@reading.ac.uk)*

### **DESCRIPTION**

Large areas of land are affected by diffuse pollution in particular in urban and peri-urban environments. These areas currently require decisions about future use, development and treatment. In many other cases land contamination has originated from locally concentrated inputs, but due to a large number of such spots, again large areas are affected. The problem is that complete clean-up of all these areas is not possible, merely because of the extent of the contamination. Nonetheless health risks need to be limited to tolerable levels, and site disturbance and soil degradation must be prevented in order to avoid pollutant mobilization and further uncontrolled dispersal. Inappropriate treatments may also unnecessarily compromise options for future land use and development.

Therefore, tools are needed to support decisions on the treatment of polluted soils with all available information and to integrate these decisions into spatial planning processes and land management. Such tools have to account for the needs and desires of institutional decision-makers and planners. In this workshop we shall discuss potential tools in the context of spatial development and land use of the entire potentially affected area.

# Workshops

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## WORKSHOP 12 – LOCAL? - REGIONAL? - DIFFUSE? TOWARDS A DEFINITION OF BACKGROUND VALUES (FOR ORGANIC COMPOUNDS) IN SOILS

Wednesday, 27 August 2008 – 14.00 - 18.00 hrs

Location: HS7

Convenor: Bernd. M. Bussian, UBA, Germany

Co-convenor: Clemens Reimann, NGU, Norway

### DESCRIPTION

Different definitions of the term background are used in geo-science, exploration geochemistry and environmental chemistry where "background" often defines the natural variation of element concentrations as opposed to high values caused by anthropogenic contamination.

For naturally occurring elements it is impossible to define global background values, or better global threshold values although regulators desire such values. Background has a strong spatial component and this spatial component needs to be considered when defining the range of background or the threshold value for any one area. In case of persistent organic pollutants (POPs) the exposure of the environment is predominantly due to anthropogenic sources. For many of these components the natural background is actually "0" (with notable exceptions, e.g. PAHs due to forest fires) and not a variation. How are then such data to be treated statistically?

Key-questions of the workshop will be:

- Is the term "natural background" applicable for mainly anthropogenic pollution with POPs? Does this term make sense in the context of health related issues? Can and should it be defined statistically or do we rather need toxicologically defined threshold or action levels?
- Do we need to establish a "background variation" for POPs? Can deposition data be interpreted in terms of population density?
- Is the term "ambient background" just a pragmatic approach to accept pollution due to a long history of human occupation and soil use as "natural"? If so, which levels are "natural" or is there a "socio-economic threshold of acceptance"?
- Can multivariate statistical approaches really explain which contaminant or group of contaminants originate from which source?
- What are the border stones for a scientifically sound European concept of "background levels" for POPs?
- What do regulators really need?

# Workshops

## WORKSHOP 13 – INTERNATIONAL YEAR OF PLANET EARTH (IYPE) – UNDERSTANDING THE LINKS BETWEEN SOIL SCIENCE AND OTHER GEOSCIENCES AND THEIR ROLE IN SUPPORTING A SUSTAINABLE SOCIETY

Wednesday, 27 August 2008 – 08.30 - 12.30 hrs

Location: HS 17

Convenor: Gabriele Broll, Univ. of Vechta, Germany

Co-convenor: Stephen Nortcliff, Univ. of Reading, United Kingdom

### DESCRIPTION

The IYPE was initiated jointly by the International Geological Sciences and the UNESCO supported by twelve founding partners including IUSS and ISRIC. The United Nations General Assembly has proclaimed the year 2008 to be the United Nations International Year of Planet Earth ([www.yearofplanetearth.org](http://www.yearofplanetearth.org)). The main aim of the IYPE is to demonstrate the great potential provided by the geosciences to lay the foundations of a safer, healthier and wealthier society. Within the activities of the IYPE ten broad science themes were selected: groundwater, hazards, earth & health, climate, resources, megacities, deep earth, ocean, life and soil. Within the science theme "Soil" four key questions were identified.

The focus of this workshop is on two of these themes:

1. How can we link the soil science knowledge base with other disciplines within the earth sciences?
2. How can we communicate better with society about the role of soil in many aspects of our daily life and the need to raise awareness to protect and maintain the soil and its functions?

Time	Speaker	Title of Presentation
8.30 – 8.40	Gabriele Broll	Welcome and Introduction
8.40 – 9.00	Stephen Nortcliff, Univ. of Reading	Soil as science theme in the International Year of Planet Earth
9.00 – 9.25	Marja-Liisa Räisänen, Univ. of Kuopio/ Geological Survey	The importance of geochemistry to understand sustainability and vulnerability of soils
9.25 - 9.50	Hanneke van den Ancker and Patrick McKeever, European Federation of Geologist & European Geoparks Network, The Netherlands	Earth Heritage and Geodiversity in the EU Soil Directive: soil scientists, geomorphologists and geologists for conservation and sustainable spatial planning
9.50 - 10.30	Moderation: Gabriele Broll	Discussion: How can we link the soil science knowledge base with other disciplines within the earth sciences?
10.30 – 11.00	Coffee Break	
11.00 - 11.20	Arwyn Jones, Vladimir Stolbovoy, Charles Tarnocai, Gabriele Broll, Otto Spaargaren and Luca Montanarella European Commission Joint Research Centre, Agriculture & Agri-Food, Canada, University of Vechta, Germany, ISRIC, The Netherlands	The Northern Circumpolar Soil Atlas as tool to raise awareness for soil protection
11.20 - 12.00	Moderation: Stephen Nortcliff	How can we communicate better with society about the role of soil in many aspects of our daily life and the need to raise awareness to protect and maintain the soil and its functions?

# Business Meetings

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## **WRB Business Meeting**

Monday, August 25, 2008 – 18:00 – 19:00

Venue: HS 18

Contact: Erika Micheli (Micheli.Erika@mkk.szie.hu)

(All working group members and interested colleagues are welcome)

## **ECSSS Council Meeting**

Tuesday, August 26, 2008-07-07 – 18:30 – 21:30

Venue: Böcklsaal

Contact: Winfried Blum (winfried.blum@boku.ac.at)

(Admission for ECSSS council members only)

## **COST 639 – Review Meeting**

Tuesday, August 26, 2008-07-07 – 18:30 – 21:30

Venue: Böcklsaal

Contact: Peter Kuikman (Peter.Kuikman@wur.nl)

(Admission for COST 639 members only)

## **ESSC Council Meeting**

Wednesday, August 27, 2008 – 18:00 – 21:00

Venue: Böcklsaal

Contact: Jose Luis Rubio (jose.l.rubio@uv.es)

(Admission for ESSC council members only)

## **ESBN Meeting**

Wednesday, August 27, 2008 – 16:30 – 18:00

Venue: HS 17

Contact: Arwyn Jones (arwyn.jones@jrc.it)

(Admission for members of ESBN only)

## **ESBN-SC Meeting**

Wednesday, August 27, 2008 – 18:00 – 21:00

Venue: Festsaal

Contact: Arwyn Jones (arwyn.jones@jrc.it)

(Admission for members of ESBN-SC only)

# Excursions

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## 3A pre: "Forest soils at the eastern edge of the Alps (Austria)"

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### Date, place and time of departure:

Sunday, 24.08.2008;

Departure: 8:00 h, bus parking lot, Schönbrunner Schloßstraße, 1130 Vienna

Underground U4 - stop "Schönbrunn";

Return: 20:00 h, Vienna, Schönbrunner Schloßstraße;

### Contents:

The excursion route covers a transect from the eastern foothills of the Central Alps towards the Pannonian basin. Substrates for soil development at the foothills are schists, gneisses, quartzite and basalt. The basin is filled with marine sediments (gravel, sand, claystone and limestone). As the area has not been glaciated during Pleistocene, substrates for recent soil development also comprise colluvia, debris flow and relictic soil material. The area is located at the intersection of the oceanic and the continental (Pannonian) climate province and covers an elevation gradient from 300 to 700 m a.s.l.. Natural vegetation types are oak hornbeam forests in lower elevations and beech forests in higher elevations. Due to land use history, secondary Scots pine or Norway spruce forests are dominating. The influence of litter raking until the 1950's can still be recognized from ground vegetation and humus properties in forest areas close to settlements.

Soil physical, chemical and mineralogical properties (in particular clay mineralogy) and influence of land use on soil development will be discussed. Examples for regionalisation of soil properties based on forest inventory data and site maps will be presented.

**Itinerary:** Vienna – Kobersdorf – Lackenbach – Neckenmarkt – Vienna

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## 4A pre: "Cross section of northern landscapes in Lower Austria from loess to Palaeozoic"

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### Date, place and time of departure:

Sunday, 24.08.2008;

Departure: 8:00 h, bus parking lot, Schönbrunner Schloßstraße, 1130 Vienna

Underground U4 - stop "Schönbrunn";

Return: 20:00 h Vienna, Schönbrunner Schloßstraße;

### Contents:

This excursion exemplary shows the different soil formations in a very short distance influenced by changing of parent material, climate and vegetation.

The altitude increase during the excursion from 150 m asl (Danube niveau) up to 590 m asl (Göpfritz). The climate changes from Pannonian in the Vienna Basin, over the hilly land climate of the Loess-Weinviertel to the colder rough climate of the eroded landscapes of the Paleozoic-Waldviertel.

**Itinerary:** Lower-Austria: Vienna – Ziersdorf – Brunn a.d.Wild, – Göpfritz a.d.Wild – Schrems – Vienna;

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## 2A post: "Soils under the so called Austrian semiarid climate in the region Weinviertel"

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### Date, time and place of departure:

Saturday 30.08.2008;

Departure: 8:00 h, APCOA bus parking lot, Schönbrunner Schloßstraße, 1130 Vienna

Underground U4 - stop "Schönbrunn";

Return: 20:00 h, Vienna, Schönbrunner Schloßstraße;

### Contents:

Soil excursion in the fields, to the Kubienamuseum and the Soil Classification -Assessment-Museum (Bodenschätzungsmuseum). This excursion shows particular soils in the so called Austrian semiarid climate. Presentation of soil development from hydromorphic to terrestrial soils situated on alluvial sediments and loess and tertiary sediments; especially of soils, which are influenced by groundwater and soils which are not influenced by groundwater; there is an enormous difference in the crop yield.

**Itinerary:** Lower Austria – Weinviertel:

Vienna – Spillern – Viendorfer Weingebirge – Sonnberg – Hollabrunn – Großnondorf – Aspersdorf – Kalladorf – Maissau – Vienna;

# Supporting Programme

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## **SOIL SCIENCE - LAND USE - SOIL PROTECTION as expressed by philately**

by Hans-Peter Blume, Kiel, Germany

A collection of **Stamps** and other philatelic products with relation to Soil Science are presented in 10 frames with 120 sheets.

**Soil** is the transformation product of mineral and organic substances at the earth's surface under the influence of environmental factors. It is the growth medium for plants and the general basis of life for animals and humankind. **Soil Science** is a discipline of natural sciences, studying conditions, development, ecology, geography, usability, as well as the degradation and conservation of soils. Since 2005 the German Society of Soil Science chooses and publishes a **Soil of the Year**. This soil appears annually on a stamp which is printed by the Austrian Post Printing Office in Vienna.

Under **Soilscapes** stamps or other records with soil profiles are combined with landscapes, in which they dominate. The soil profiles are also combined with stamps of wild plants, naturally growing on these soils.

Under **Attributes of Soils**, *parent rocks*, *primary minerals* and *secondary minerals* are arranged according to different attributes. Soil animals are arranged according to their importance for soil formation.

Under **Research of Soils** main *field* and *laboratory methods* and their *use* are presented.

Under **Tillage of Soils** different methods of physical soil treatment, including *drainage* and *irrigation* are shown.

Under **Use of Soils** the different forms of *land use* are demonstrated.

**Soil Degradation and Conservation** is a further topic of Philatelic observation.

Under **Personalities of Soil Science** persons of historical importance related to soil and land use and development of soil science as a scientific discipline are shown.

The part **Teaching - Research - Communications** highlights universities with pedological teaching and research, congresses of soil science and neighboring disciplines and publishers of books and journals of soil sciences.

The collection will be displayed during the congress next to the Exhibition area.

# Guidelines and Information for Speakers, Chairpersons and Poster Presenters

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## Opening Hours Preview Room

Monday, August 25, 2008	08.00 – 17.30 hrs
Tuesday, August 26, 2008	07.30 – 17.30 hrs
Wednesday, August 27, 2008	07.30 – 17.30 hrs
Thursday, August 28, 2008	07.30 – 17.30 hrs
Friday, August 29, 2008	07.30 – 15.30 hrs

## If you are a Chairperson

1. Please locate your Session room in due time. You will find all necessary information concerning the date, time and location of your Session again in this Final Programme Book. Please be in your Session room at least 10 minutes prior to the start of the Session.
2. We remind you that Speakers should strictly observe timing.

## If you are a Speaker in a Session

1. Please locate your Session room in due time. You will find all necessary information concerning the date, time and location of your Session again in this Final Programme Book. Please be in your Session room at least 10 minutes prior to the start of the Session. Make yourself known to the chairpersons and/or the room assistant in your session room before the beginning of the session.
2. Speakers should deliver and view/check their PowerPoint presentations at the Preview Centre at least 2 hours prior to the start of the respective Sessions. For sessions starting at 08:30, the PowerPoint presentations should be delivered the previous day. In order to avoid any delay, Speakers are kindly requested to hand in their PowerPoint presentations on an electronic support (CD-ROM and USB only). Speakers should not take their PowerPoint presentations directly to the technical assistant in the Session room.
3. Speakers are kindly asked to keep their presentation within the given time limits which also include discussion time.

## If you present a poster

Poster Sessions take place daily (except Wednesday, August 27, 2008) between 12.30 and 14.00 hrs. Please check the date on which your Poster will be presented and mount your Poster between 08.00 and 10.30 hrs. Attach it to the board with the poster board number you have received (you will also find your poster board number in the author index at the end of the abstract book as well as in this programme.) and remove it by 18.00 that same day, to avoid that your Poster is disposed of by the staff.

Poster Session	Session 1	Session 2	Session 3	Session 4
Display Date	Monday, August 25	Tuesday, August 26	Thursday, August 28	Friday, August 29
Poster Number	P001 – P178	P179 – P376	P377 – P568	P569 – P747
Presence at Poster	12.30-14.00	12.30-14.00	12.30-14.00	12.30-14.00
Poster Mounting Time	8.00-10.30	8.00-10.30	8.00-10.30	8.00-10.30
Poster Removal Time	16.30-18.00	16.30-18.00	16.30-18.00	16.30-18.00

Double sided tape for mounting the Posters will be available from the Poster service desk. Please note that no other materials are admitted for mounting the posters, to avoid damaging the panel surfaces. An assistant will be available should you need any help.

In order to enable discussion and interaction with other participants, we request the main author or another member of the group to be at the poster board at the times noted below. If this is not possible, we request the authors to leave a note on the poster indicating the times when they will be present at the board.

The convenors of the respective Symposia will nominate one to two posters for each topic as candidates for the Poster Awards. Selected Posters will be mounted in the Poster Award Finalists area by the congress staff, to be viewed for the rest of the Congress. The Poster Award Winners will be announced during the Closing Ceremony on Friday, August 29, 2008, 17.00 – 18.00 hrs.

**Please note** that the organisers cannot assume any liability for loss or damage of posters displayed in the poster area. Posters that are not removed by 18.00 hrs on the day of the respective Poster Session, will be removed by staff and will not be stored or sent to the author after the meeting.

# Congress Information

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## Abstract Books

You will find a CD-ROM of all the abstracts in your congress bag. Hard copies of the abstract book may be purchased at the registration desk for EUR 15.00 (while stocks last).

## Badges

Participants will receive their name badges from the conference registration desk. Since only registered participants will be permitted to attend scientific sessions, the exhibition and poster areas, you are kindly asked to wear your badge when entering the congress venue. Please note that admission to scientific sessions is strictly restricted to participants wearing their badges. Exhibitors and accompanying persons are not entitled to attend the scientific sessions. Lost badges can be replaced at the registration desk. However, a handling fee will be charged.

The following badge-colours are used at the Congress:

<b>White</b>	→	Participants
<b>Blue</b>	→	Accompanying Persons
<b>Green</b>	→	Exhibitors
<b>Red</b>	→	Press
<b>Yellow</b>	→	Staff

## Cancellations and Refunds

Notice of cancellation is to be made in writing by registered letter or fax to the Congress Office.

The policy for refunding registration fees is as follows:

Written cancellation received:

- Before May 31, 2008: 75% refund

- After May 31, 2008: no refund

The date of the postmark or fax ID is the basis for considering refunds. Refunds will be made after the congress.

## Cash Bar

Snacks and drinks may be purchased at the cash bar in the catering area during congress hours.

## Certificate of Attendance

Confirmations of attendance will be issued at the registration desk.

## Citation of Authors

In this programme only the presenting authors are listed. You will find the complete list of all authors in the author index of the Abstract Book.

## Coffee Breaks

Refreshments will be served free of charge to participants wearing name badges in the catering area.

## Excursions on DVD

A DVD with the guides to all initially planned excursions may be purchased at the registration desk for EUR 15.00 (while stocks last).

## Lunch

You can have lunch in the on-campus restaurant (Nelsons) in the second courtyard. Alternatively there are plenty of restaurants in the vicinity of the conference centre which serve a broad variety of local and international dishes. The *Naschmarkt* houses several restaurants including seafood, Japanese and Chinese cuisine, a pancake house, and local food. Check for two or three course menus at lunchtime (*'Mittagsmenü'*), which may offer a better value than individually ordered courses.

## Exhibition Opening Hours

Monday, August 25	08.30-17.00 hrs
Tuesday, August 26	10.00-17.00 hrs
Wednesday, August 27	10.00-17.00 hrs
Thursday, August 28	10.00-17.00 hrs
Friday, August 29	10.00-18.00 hrs

## Hotel and Tours Desk

There will be a hotel desk in the foyer between Böckl-Saal and Festsaal where optional social programmes such as city tours, etc. may be booked.

## Internet

WLAN is available in the conference venue. Login details can be obtained from the registration desk. You may also find small Internet cafés throughout the city.

## Message Board

A Message Board and notice of the daily programme are available in the catering tent.

## Poster Service Desk

Poster presentations are indicated with the letter P and three digits, e.g. P001. Staff at the poster service desk will assist poster presenters to find their poster board and provide adhesive material.

# Congress Information

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## Poster Mounting and Removal

There are four poster sessions: Monday, Tuesday, Thursday, and Friday from 12:30 – 14:00 hrs. Poster mounting will be possible from 8:00 - 10:30 hrs on the day of the respective Poster Session. Posters must be removed by 18.00 hrs on the day of the respective Poster Session. Please note that the organisers cannot assume any liability for loss or damage of posters displayed in the poster area. Posters that are not removed by 18.00 hrs of the day of the respective Poster Session will be removed by staff and will not be stored or sent to the author after the meeting.

## Presentation numbers

Each presentation number consists of a sequence of letters and digits. For example, presentation number *S01.A.02* stands for Symposium 01, time slot A, second presentation within this time slot. Keynote lectures carry a "KL" instead of the sequence number.

## Preview Room

Equipment for a final check of the sequence of your presentation is available in the preview room. All presenters should bring their electronic presentation to the preview room preferably in the morning of the day of the talk, but not later than 2 hours before the start of the session. For sessions starting at 08:30, the PowerPoint presentations should be delivered the previous day.

## Registration Desk opening hours

Sunday, August 24, 2008	13.00 – 18.30 hrs
Monday, August 25, 2008	07.30 – 18.30 hrs
Tuesday, August 26, 2008	07.30 – 18.30 hrs
Wednesday, August 27, 2008	08.00 – 18.30 hrs
Thursday, August 28, 2008	08.00 – 18.30 hrs
Friday, August 29, 2008	08.00 – 17.00 hrs

## Signage - Colour Guidance System

The colours, in which the rooms are printed in the programme by day as well as the detailed symposia programme correspond with the colours of the signposts directing you to the meeting rooms.

## Smoking Policy

EUROSOIL 2008 is a "No-smoking-Conference". Please note that smoking is banned from all public buildings including the catering tent. Restaurants and bars may, depending on size, be declared either as "smoking" or "no-smoking" locations or have separate areas and ventilation systems.

## Staff

Should you have any questions, congress staff, recognizable by a red t-shirt and yellow badge, will be pleased to help you.

# Registration Fees

## Onsite registration

Sunday, August 24, 2008	13.00 – 18.30 hrs
Monday, August 25, 2008	07.30 – 18.30 hrs
Tuesday, August 26, 2008	07.30 – 18.30 hrs
Wednesday, August 27, 2008	08.00 – 18.30 hrs
Thursday, August 28, 2008	08.00 – 18.30 hrs
Friday, August 29, 2008	08.00 – 17.00 hrs

Payment received	before 31 <sup>st</sup> January	before 31 <sup>st</sup> May	after 31 <sup>st</sup> May and on site
Regular participants	EUR 250.--	EUR 300.--	EUR 350.--
Students**	EUR 100.--	EUR 150.--	EUR 200.--
Day Ticket	-	-	EUR 100.--
Accompanying persons	EUR 55.--	EUR 55.--	EUR 40.--*
** please provide a copy of an ID together with your registration			

## What is covered by the registration fee?

Participants	Accompanying persons
<ul style="list-style-type: none"> <li>Admission to all scientific sessions</li> <li>Access to the exhibition</li> <li>Welcome reception at the City Hall Monday, August 25, 2008, 20.00 hrs</li> <li>Abstracts on CD-ROM</li> <li>Coffee breaks</li> </ul>	<ul style="list-style-type: none"> <li>Admission to the welcome reception at the City Hall Monday, August 25, 2008, 20.00 hrs</li> <li>Historical City Tour*, Wednesday, August 27, 2008, 09.00 hrs</li> <li>Access to the exhibition</li> </ul> <p>(no admission to lectures)</p> <p><i>*Please note that the Historical city tour is not available for on site registrations of accompanying persons. Individual tours can however be booked at the Hotel and Tours Desk.</i></p>

Payment of registration fees may be made in cash (Euros only), by maestro debit card, or by the following credit card: Diners Club, Mastercard, Visa.

**Please note** that the reduced registration fee is only applicable if it has been credited to the congress account before the deadline. Registering without performing an actual payment is not sufficient to benefit from the reduction. Pre-registration without payment of the registration fee is possible. The full fee is to be paid at the registration desk.

## Cancellations and refunds:

Notice of cancellation must be made in writing by registered letter or fax to the Congress Office.

The policy for refunding registration fees is as follows:

Written cancellation received:

- Before May 31, 2008: 75% refund

- After May 31, 2008: no refund

The date of the postmark or fax ID is the basis for considering refunds. Please indicate the preferred method of reimbursement (cheque or bank transfer, incl. account number) on your written cancellation. Refunds will be made after the congress.

# General Information

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## Bank services - Money matters

Banks are open from 8.30 – 12:30 and from 13:30 – 15:00, Monday to Friday. Some banks are also open on Thursday afternoons until 17:30 hrs. Cash machines (ATMs), which accept all major international bank cards, are available throughout the city. Cash machines in the vicinity of the conference venue are situated on Wiedner Hauptstrasse 11 and 20, as well as Operngasse 21. The currency of Austria is the Euro (€). Major credit cards are widely accepted, but please always check beforehand.

## Car Parking

Participants may park their car in the 'Garage Technische Universität Wien', Operngasse 13. Charges are EUR 3.10 for every started hour, or EUR 24.80 per day, and all major credit cards are accepted.

## Climate

The temperature in August is warm and averages around 24 degrees Celsius (75 degrees Fahrenheit). Evenings are cooler and light jackets or sweaters are recommended.

## Currency

The official currency of Austria is the Euro (€). 1 EUR = 1,57 USD = 0,78 GBP = 169 JPY = 1,63 CHF as per date of printing.

## Drinking water

Tap water in Austria is of high quality and suitable for drinking.

## Eating Out in Vienna

Vienna has a broad variety of local and international restaurants, many of them located in the old city and in the vicinity of the conference venue.

## Electricity Supply

220V - 50Hz AC. Adaptors can be obtained from your hotel reception or electronics stores.

## Emergency Phone Number

The phone number to dial for emergencies is 112.

## GSM cell phone roaming

GSM cell/mobile phone roaming is available for all major international providers. It is advisable to ask your provider beforehand which roaming company in Austria offers the cheapest tariffs.

## Insurance

In registering for the EUROSOL 2008 participants agree that neither the organising committee nor the congress office assume any liability whatsoever. Participants are requested to make their own arrangements for health and travel insurance.

## Internet

WLAN is available in the conference venue. Login details can be obtained from the registration desk. You may also find small Internet cafés throughout the city.

## Language

The official language of the congress will be English (no simultaneous translation). German is the official language in Austria.

## Medical care

The Austrian National Health Service may be used by all persons from European Union countries who have the E111 Form (EHICard). This form/card should be obtained at the health service or post office of the visitor's home country before travelling to Austria. It is advisable for participants from countries outside the European Union to take out medical insurance before reaching Austria, since they will be charged for access to the national health system.

## Pharmacies

Medicines that do not require a medical prescription may be purchased over the counter. If you need advice, do not hesitate to ask the pharmacist. If you usually take medication, it is advisable to bring a sufficient amount with you for your trip. Pharmacies in the vicinity of the conference venue are on Operngasse 16 (open Mon-Fri, 8-12 and 14-18 hrs, and sat 8-12) and Wiedner Hauptstrasse 14 (open Mon-Fri 8-18 and Sat 8-12). There are duty pharmacies open 24 hours a day. Outside each pharmacy there is a list of the nearest duty pharmacies, or you may ask at your hotel reception for more information.

## Safety - Crime

Visitor safety is generally adequate. Like in any other major European city, you can walk everywhere using common sense. Pick pocketing in heavily visited tourist zones or in public transport lines might be a concern.

Unfortunately experience has shown that some basic precautionary measures should always be kept in mind in any city:

- Do not carry important items like flight tickets, passports etc. with you when visiting the conference or strolling through the city; leave them in the hotel safe during your stay. Rather carry a photocopy of your passport or an identity card with you.
- Try not to carry all documents, money, credit cards and other essential items and valuables in *one* bag. If it gets lost or stolen, everything will be gone and might be difficult to replace on short notice, especially passports and visa to return to your country of residence.
- Take off your name badge when leaving the conference centre.

# General Information

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## Shops

Shops in Vienna are generally open between 09.00 and 18.00 hrs Mon-Fri, and between 09.00 and 12.00 on Saturdays. Some shops are open until 19.00 Mon-Fri and until 17.00 on Saturdays. Shops are usually closed on Sundays, except for a few establishments with special permits.

## Taxis

There are Taxi ranks throughout the city, but calling is often your best option. Please address your hotel reception or the registration desk of the conference venue.

## Tipping

Tips are not obligatory in Austria, although people usually tip approximately 10% at restaurants, cafés and bars. Hotel and airport porters will accept tips, depending on the luggage.

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## Travelling within Vienna

Vienna has an excellent public transport system which is very effective and inexpensive. Tickets are available from machines at underground stations (maestro debit cards accepted), at news agent's, or at Vienna Transport Authority's ticket offices. Tickets bought in advance are cheaper and must be punched in a blue ticket cancelling machine on the tram or bus, or at the barrier before boarding the underground train.

**Single trip tickets** can be used for any single trip within Vienna. You may change lines (and switch between bus, tram, underground, or urban train), but you may not interrupt your journey. Ticket price: **EUR 1.70** when bought in advance; **EUR 2.20** when bought in the means of transport.

**The 24-hour pass** is valid throughout Vienna for exactly 24 hours from the time it is punched. Price: **EUR 5.70**

**The 72-hour pass** is valid throughout Vienna for exactly 72 hours from the time it is punched. Price: **EUR 13.60**

**The 8-day ticket** is valid for any eight days, not necessarily eight consecutive days. It is a rover ticket, which means you can travel all around Vienna. You can also use the ticket for several people travelling together. Simply punch one strip for each person in the group. Price: **EUR 27.20**

**Week-pass** valid from Monday to Monday, 09.00 hrs. Price: **EUR 14.00**

A **taxi** is the most comfortable way of getting around the city but also the most expensive. They are identifiable by their roof-sign which is lit when available. Prices must be displayed inside the cab and meters (which are compulsory in all cabs) will indicate the fare.

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## Travelling from and to the Airport

Vienna International Airport is located 13 kilometres south east of Vienna.

### City Airport Train (CAT)

The train service between the airport and the city centre (City Air Terminal – Station '*Wien Mitte*') is every 30 minutes and takes 16 minutes. It is covered from 6:05 hrs to 00:05 hrs (Airport to City) and from 5:38 hrs to 23:38 hrs (City to Airport). Tickets may be purchased online (EUR 8.00 single or EUR 15.00 return), from ticket machines at the airport/station (EUR 9.00 single or EUR 16.00 return) or on board (EUR 10.00 single). From '*Wien Mitte*' you can take the green line (U4) direction *Hütteldorf* and get off at '*Karlsplatz*' (two stops).

Alternatively, there is a **bus service** to Südbahnhof which takes around 35 minutes and costs EUR 6.00 (single) and EUR 11.00 (return). From there you can take the tram line 'D' to 'Operring'.

**Taxi** fares to the conference venue are about EUR 35.00 and take around 25 minutes. There is a taxi rank outside the airport terminal. Night-time fees are slightly higher.

## Vienna

Vienna, the capital of Austria, 2 million inhabitants, is situated on the banks of the Danube. Vienna is a dream city for anyone with an interest in history. Narrow, medieval alleyways and grand boulevards lead to historic sights such as the Imperial Palace (Hofburg), Belvedere Palace, Burgtheater, the Spanish Riding School, St. Stephen's Cathedral, the Opera House, Karlskirche, or Schönbrunn Palace. Vienna has been synonymous with music for centuries, and was home to Mozart, Beethoven, Schubert and Johann Strauss. The Vienna Philharmonic Orchestra is one of the world's top orchestras; the Vienna Boys' Choir is triumphantly successful wherever it tours. Vienna possesses a lively and vast array of cultural attractions, from classical or experimental theatre, film or dance festivals, opera or operetta, to exhibitions and concerts. The Museum of Fine Arts is one of the world's largest and most distinguished museums, housing priceless works of art. Art accompanies you wherever you go in Vienna - even some of its underground stations are listed properties on account of their elegant, ornamental Jugendstil (Art Nouveau) style designed by Otto Wagner. For more information about Vienna, please see [www.aboutvienna.org](http://www.aboutvienna.org).

# Social Events

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**Monday, August 25, 2008, 20.00hrs**

## **Welcome Reception by the Mayor of Vienna at the Vienna City Hall**

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The mayor of the city of Vienna is pleased to invite you to a Welcome Reception. Meet your colleagues at this event. Enjoy the evening with a Buffet and live music.

Dress code: business attire

Attendance free for registered participants and accompanying persons. Those who have registered prior to the congress should have received their ticket with the congress material. Please remember to bring your ticket.

**Please note that attendance is limited and advance registration is mandatory in order to receive a ticket!  
A limited number of tickets will still be available for onsite bookings.**

Venue: Vienna City Hall, Lichtenfelsgasse 2, 1010 Vienna

**Directions:** From the conference venue take the purple underground line U2 (direction 'Stadion') three stops and get off at 'Rathaus'. Take the exit towards the back of the train and turn left. This is *Lichtenfelsgasse*. The entrance to the Reception is on the left hand side.

Alternatively, it could be a rather scenic walk which takes around 20 to 30 minutes. From the main entrance of the conference centre go straight ahead and cross the park. Cross the main road and keep going straight ahead down '*Akademiestrasse*' or '*Kärntner Strasse*' until you get to the '*Ringroad*'. Turn left and follow the '*Ringroad*'. You will pass the two museums and the parliament building on your left. The next building on your left is the town hall. Cross the park and take the side entrance on the left side of the building.

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**Wednesday, August 17, 2008, 09.00 hrs.**

## **Signs of the time - Historical Vienna (only for pre-registered participants)**

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This is the perfect tour to get an overall impression of beautiful Vienna. Get to know the many magnificent buildings along Ringstrasse, such as the State Opera, Museums of Fine Arts and Natural History, the Hofburg (Imperial Palace), Parliament, City Hall, the Burgtheater and Votivkirche. Another highlight is a guided tour through the wonderful stately rooms of Schönbrunn Palace, the former summer residence of the Habsburg family. We return via Belvedere Palace.

**Buses depart from the Technical University, Vienna, Wednesday, August 17, 2008, 09.00 hrs.  
Duration: 3.5 hours**

**Advance registration necessary. No onsite booking possible.**

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**Thursday, August 28, 2008, 19.30hrs**

## **Dinner at a Viennese "Heuriger"**

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An evening spent in typical Austrian wine taverns in Vienna. You will be served a delicious Austrian buffet and excellent local wines while enjoying the atmosphere of a traditionally decorated restaurant. "Heuriger" could be translated with "of this year" and means a young crisp wine produced during the current wine season. Only wine producers serving their own product, grown in the vineyards of Vienna, may call their tavern "Heuriger".

Dress code: casual

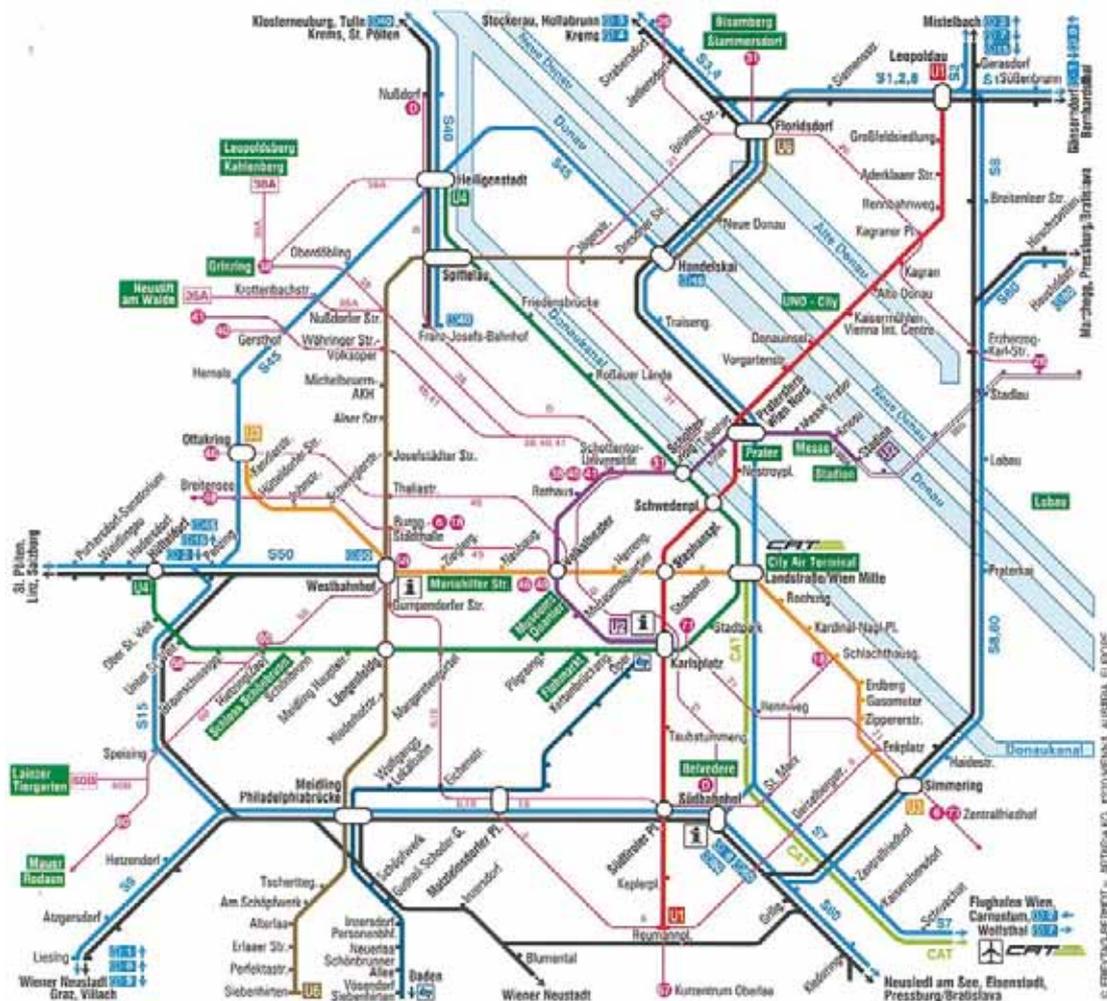
Venue: Weingut Fuhrgassl Huber  
Neustift/Walde 68  
1190 Wien

**Buses depart from the Technical University, Vienna, Thursday, August 28, 2008, 19.00hrs.**

Price per ticket including music, food and beverages: EUR 40.–

**Please note that advance registration is mandatory in order to receive a ticket! A limited number of tickets will still be available for onsite bookings.**

# City & Subway Map



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## Exhibition / Exhibitors

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### Exhibitors: (as per date of printing)

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ADC BioScientific  
Decagon Devices  
Delta-T Devices  
ecoTech Umwelt-Meßsysteme  
Eijkelkamp Agrisearch Equipment  
IMKO  
E. Schweizerbart'sche Verlagsbuchhandlung  
UMS Umweltanalytische Mess-Systeme  
Umwelt-Geräte-Technik  
Wiley-Blackwell

Austrian Soil Science Society  
Slovak Soil Science Society

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### Exhibition Dates & Opening hours:

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Monday, August 25	08.30-17.00 hrs
Tuesday, August 26	10.00-17.00 hrs
Wednesday, August 27	10.00-17.00 hrs
Thursday, August 28	10.00-17.00 hrs
Friday, August 29	10.00-18.00 hrs

Since the daily conference hours are 8.30 to 18.00 hrs, conference participants may remain in the exhibition hall beyond exhibition hours.

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Please note that in this programme only the presenting authors are listed. You will find the complete list of all authors in the author index of the Abstract Book.

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